



BEC

RISK ASSESSMENT SOIL AND CRUSHED CONCRETE

Prepared for:

Sunkist Growers, Inc.

Site Name/Location:

Former Sunkist Citrus Processing Plant
616 East Sunkist Boulevard
Ontario, California

April 8, 2011

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**RISK ASSESSMENT
SOIL AND CRUSHED CONCRETE
Former Citrus Processing Plant
616 East Sunkist Boulevard
Ontario, California**

BEC Project No.: 08010007

April 13, 2011

Prepared For:
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I, Keith Rudd , do hereby declare, under penalty of perjury under the laws of the State of California that as a representative of Sunkist Growers, Inc. that I am authorized to attest to the veracity of the information contained in the Risk Assessment - Soil and Crushed Concrete, dated April 8, 2011, based in part on my reliance on the information provided by Bowyer Environmental Consulting, Inc.. To my knowledge the information contained in this report is true and correct. This declaration was executed as described below.


Keith Rudd
Sunkist Growers, Inc.

Date: 4-13-11 Place: Sunkist Growers Tipton Facility

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The material and data in this report were prepared by and/or under the supervision and direction of the undersigned.

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Date April 8, 2011

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Date April 8, 2011

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1.0 INTRODUCTION

At the request of Sunkist Growers, Inc. (Sunkist), Bowyer Environmental Consulting, Inc. (BEC) conducted a Human Health Risk Assessment (HHRA) for the property located at 616 Sunkist Street in Ontario, California. The site location is shown on Figure 1. The HHRA was prepared in accordance with the BEC Work Plan dated January 12, 2011. The Work Plan was reviewed and approved by the Hazardous Materials Division – Site Remediation/Local Oversight Program San Bernardino County Fire Department (County), the California Environmental Protection Agency, Office of Environmental Health Hazard Assessment (OEHHA), and the U.S. Environmental Protection Agency (USEPA). The overall objectives of the HHRA were to assess the potential health risk and hazards posed by site-related chemicals to human health and to set risk-based cleanup levels for chemicals found to pose a potential health risk. In addition, due to the presence of polychlorinated biphenyls (PCBs) in soil and construction materials at the Site, this HHRA meets the requirements under CFR 761(c).

This HHRA estimated health risks assuming that potential human receptors are exposed to environmental media at the former Sunkist facility under a Reasonable Maximum Exposure (RME) scenario. The RME scenario is the methodology recommended by the USEPA and OEHHA for preparation of HHRAs for hazardous substance sites and permitted facilities. The RME is defined as the maximum exposure (i.e., chemical intake) that is reasonably expected to occur as a result of human interaction with environmental media at a site. Therefore, actual risks associated with conditions evaluated in this risk assessment are likely to be lower than those described herein.

2.0 *SITE BACKGROUND*

The approximately 11.11-acre Site is located in the City of Ontario, approximately 1 mile west of the Ontario International Airport, and between the San Bernardino Freeway (Highway 10) to the north, and the Pomona Freeway (Highway 60) to the south.

2.1 *General Geology and Hydrogeology*

The Site is located within the Pomona/Chino Valley, which is bordered on the north by the San Gabriel Mountains, on the east by the San Jacinto Fault, on the south by the Santa Ana Mountains, and on the west by the San Jose/Puente/Chino Hills. The area near the Site is reportedly underlain by young alluvial fan deposits of fine- to coarse-grained sedimentary units formed by the San Antonio Creek and its tributaries (California Department of Conservation, Division of Mines and Geology, 2000).

A significant groundwater investigation is being conducted to the west of the Site in association with the former General Electric Company Flatiron facility (234 East Main Street, Ontario, California). Based on the 3rd Quarter 2008 Groundwater Monitoring Report (AMEC, Geomatrix, Inc., November 24, 2008) the depth to groundwater within the general vicinity of the Site is between 265 and 369 feet beneath ground surface (bgs). Groundwater reportedly flows towards the south within the general vicinity of the Site.

2.2 *History of Site Operations*

According to the *Historic Context for the City of Ontario's Citrus Industry* (City of Ontario Planning Department, February, 2007), the Site was developed as a citrus by-products plant in 1926 by the Ontario Citrus Exchange (a predecessor to Sunkist). As of early 2010, the site consisted of 23 buildings, a waste water treatment plant, a Dryers Area, a Waste/Heat area, a Wet Peel Area, and a fenced in Edison Transformer. These operational features are shown on Figure 2.

For the most part Sunkist terminated citrus processing at the Site in 2008. The wastewater treatment plant continues to operate at the Site to accommodate the ongoing bulk storage operation that Partners Alliance operates at 617 E. Sunkist Street (directly north of the Site). Partners

Alliance is in the process of rerouting wastewater to the City system and will no longer need to utilize the wastewater treatment system.

The City of Ontario (City) is in the process of acquiring the Site in association with a new commercial and/or industrial development. Future development plans that have been suggested involve the development of a new multi-tenant industrial park.

2.3 *Environmental Assessments and Demolition Activities*

Numerous environmental site assessments have been performed at the subject property. The following paragraphs provide a brief description of the major environmental assessments conducted at the Site and the results obtained.

On behalf of the City, Leighton Consulting, Inc. (Leighton) conducted a Limited Phase II Environmental Site Assessment (Phase II Investigation) at the Site in October 2008. In addition, BEC conducted a data gap investigation in August 2009. These investigations consisted of the drilling and sampling of 101 soil borings. Selected soil samples collected from these borings were analyzed by the following constituents:

- California Administration Manual (CAM) metals by USEPA Method 6000 and 7000 Series;
- Hexavalent chromium by USEPA Method 7096A;
- Total petroleum hydrocarbons (TPH) in the gasoline, diesel and oil ranges by USEPA Method 8015M;
- Polycyclic aromatic hydrocarbons (PAHs) by USEPA Method 8270C SIM;
- Semi-volatile organic compounds (SVOCs) by USEPA Method 8270C;
- Polychlorinated biphenyls (PCBs) by USEPA Method 8082;
- Pesticides by USEPA Method 8081A; and
- Volatile organic compounds (VOCs) by USEPA Method 8260B.

In addition, 32 shallow (5.0 foot) and 14 deeper (15 foot) soil vapor points were installed and sampled for VOCs during these investigations.

Based on these investigations, two areas (Area 11C and Area 20) were found to contain PCBs in excess of conservative screening criteria including the California Human Health Screening Level (CHHSL) for commercial/industrial property use. One additional area (Area 24C) was found to contain debris with soluble lead in excess of state of California hazardous waste criteria (soluble threshold limit concentration – STLC).

As summarized in BEC's July 31, 2009 Interim Report - Soil Removal and Confirmation Sampling Report (Interim Report), an initial soil removal activity was implemented to address these areas. However, due to the presence of existing structures, further excavations and soil removal activities in two areas (11C and 24C) were deferred until the overlying structures had been removed.

Demolition activities began at the Site in late 2009. These activities have included the demolition of all building and structures. Prior to demolition, asbestos and lead abatement activities were implemented. These abatement activities were conducted as per the requirements of the South Coast Air Quality Management District (SCAQMD). In addition, environmental monitoring activities have been conducted per the HMD approved Removal Action Workplan. These activities are described in the following subsections.

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2.4.1

Environmental Monitoring During Demolition

BEC personnel conducted environmental monitoring to evaluate environmental conditions during the removal of foundation, asphalt, roadways and other surface and sub-grade structural features. The environmental monitoring consisted of a three-tiered process, including:

- Visual monitoring of all exposed soil for obvious signs of environmental impacts including staining or discolored soils;
- Olfactory monitoring of all exposed soil for noticeable, unusual odors; and
- Field screening with a flame ionization and photoionization detector (FID/PID) in order to document soil that exhibits elevated readings of VOCs.

Locations that exhibited one or more of the three monitoring criteria were deemed to be Areas of Concern (AOCs). Soil samples were collected from each of these areas and analyzed for the following parameters:

- CAM metals by USEPA Method 6000 and 7000 Series;
- Hexavalent chromium by USEPA Method 7096A
- TPH in the gasoline, diesel and oil ranges by USEPA Method 8015M;
- PAHs by USEPA Method 8270C SIM;
- PCBs by USEPA Method 8082;
- Pesticides by USEPA Method 8081A; and
- VOCs by USEPA Method 8260B.

In addition, at each former hydraulic lift location, two soil samples were collected and analyzed for TPH and PCBs even when an AOC was not identified during the environmental monitoring process.

In total, soil was sampled from twenty-six AOCs identified during field monitoring. In addition, soil samples were collected from beneath eight hydraulic lift locations. The locations of the AOCs identified during

monitoring are shown on Figure 3. During the demolition process, concrete, and other building materials were broken up than crushed on Site for reuse as fill within existing basement structures and as roadbase. This process generated several stockpiles of crushed concrete. The location of the stockpiles is shown on Figure 4. A description of the AOCs is provided on Table 2-1, and a description of stockpiled material is provided on Table 2-2. Specific results from analysis conducted on samples collected at AOCs are provided on Tables 2-3 through 2-9.

2.4.2 *Initial Removal Action – Lift 64*

Two large stockpiles of partially processed concrete were created during the initial phases of the Site demolition process. In addition, basement structures, of various depths, were present beneath Buildings 11, 21 and 64. In order to help balance the future Site grade conditions (grading to be performed in the future by the City), it was decided that the concrete would be crushed and placed within the basements. Based on the sampling performed beneath the former lifts as part of the environmental monitoring during grading, the presence of PCBs in excess of USEPA screening levels observed in soil beneath former Lift 64. In order to allow the crushed concrete to be placed within Basement 64, an early removal action was implemented at this location. This removal action was conducted on September 20, 2010.

The removal action consisted of excavating soil to depths of five feet from beneath the former lift. It should be noted that the bottom of the lift was recessed approximately five feet beneath the floor of the basement. As the basement for Building 64 was approximately 12 feet deep, the five-foot excavation beneath Lift 64 took place at depths of 17 to 22 feet below ground surface (bgs). An area of approximately 140 feet (14 by 10 feet) was excavated from beneath former lift 64 as shown on Figure 5.

This excavation generated approximately 25 cubic yards of soil. The excavated soil was stockpiled with other excavated material as shown on Figure 4.

Following the excavation, four sidewall samples were collected from the approximately midpoint of the excavation on the north, south, east and west walls. In addition, one floor sample was collected from the bottom of the excavation. Per the Removal Action Work Plan, the confirmation samples were to be analyzed for compounds that were observed to be in excess of screening criteria based on sampling performed during the environmental monitoring task. As PCBs were the only compounds

observed at this AOC in excess of screening criteria, each of the five confirmation samples were analyzed for PCBs. The results of these analyses are shown on Table 2-10. As shown, none of the confirmation samples contained detectable levels of PCBs.

These results were provided to the HMD and a Site inspection was conducted on September 29, 2010. Based on the results obtained, the HMD verbally concurred with the conclusion that no further work was required in association with former Lift 64, and the excavation could be backfilled. A copy of the email correspondence that documents the HMD's verbal approval is provided in Appendix A.

2.4.3 *Sampling of Pre-Excavation Asphalt*

In order to assess the environmental conditions of paving asphalt, ten samples were collected from this material from various locations across the Site on October 5, 2010. Collected samples were analyzed for PCBs, VOCs, PAHs, TPH, total metals and pesticides. Results obtained from these analyses showed nondetectable levels of VOCs, PAHs and pesticides and low concentrations of TPH and metals. In addition, low concentrations of PCBs were observed as shown on Table 2-11. As test results obtained prior to this date (as described in Section 2.4.4) from crushed concrete showed higher levels of PCBs, it was decided to incorporate the remaining non-stockpiled asphaltic material into the crushed concrete material.

2.4.4 *Demolished Concrete*

Concrete, brick and other materials generated during the demolition process was initially stockpiled into two large partially processed stockpiles. On September 3, 2010, the crushing of this concrete commenced. As previously described, given space constraint at the site, the initially crushed concrete was placed directly into three basement structures that underlay the former Buildings 11, 21 and 64. Upon the initiation of crushing operations, twenty-three samples of this partially processed material and one sample of the initial crushed material was collected. Each of these twenty-four samples were analyzed for PCBs and TPH, given that these were the compounds that were most frequently observed in subsurface soil samples collected at the AOCs and lifts. In addition, four partially processed and one of the initial crushed samples were also analyzed for VOCs, PAHs, pesticides and total metals. Results of these analyses did not detect the presence of VOCs or pesticides. In addition, relatively low levels of metals, PAHs and TPH were observed.

PCBs were observed in several of the partially processed concrete samples and within the crushed concrete samples.

Based on these results, and the logistical problems posed by the space constraints on the Site, it was decided to continue to crush and place the concrete within the existing basement structures. Following the filling of the basements, enough space would be created to allow the remaining crushed material to be stockpiled at the Site. Samples of the crushed concrete were collected at a rate of approximately one sample per every 640 cubic yards of material generated. Each of these samples has been analyzed for PCBs, given that this was the only compound observed in the initial samples that exhibited a discrete sample concentration in excess of screening criteria.

Tables 2-12, 2-13, 2-14 and 2-15 summarize the concrete sample results for PCBs, TPH, metals, PAHs, respectively. Tables associated with VOCs and pesticides were not prepared as these compounds were not detected during the initial sampling of partially processed and crushed concrete. As shown on Table 2-12, the PCB concentrations detected in the crushed concrete have ranged from non detect to 27.2 milligrams per kilogram (mg/kg).

2.4.5 *Data Validation*

The soil, asphalt and concrete samples collected as part of the demolition program were evaluated by a third party reviewer, Laboratory Data Consultants, Inc. (LDC). Based on this evaluation additional data qualifiers were assigned, as appropriate. The original laboratory reports produced by the analytical laboratory (ABC Laboratories) and data validation report produced by LDC are provided in Appendix B.

2.5 *Post-Demolition and Post-Excavation Environmental Conditions Summary*

Numerous environmental site assessments have been performed at the subject property. Results of the investigations have revealed the presence of man-made chemicals in soil, soil gas and crushed construction materials (i.e., crushed concrete) at the Site. The extent and nature of the impacts within each impacted media have been well characterized and defined.

As described previously, groundwater has not been encountered during investigation activities conducted at the Site. Based on nearby

investigations, the depth to groundwater at the Site is greater than 250 feet bgs. The vertical extent of chemical impacts at the Site has been evaluated and found to be relatively shallow. In addition, the primary chemicals of concern identified during investigations and remedial monitoring during Site demolition activities (PCBs, diesel-range hydrocarbons and to a lesser extent polycyclic aromatic hydrocarbons, lead and chromium) have relatively low solubilities and are not highly mobile in the subsurface. Given the nature of the compounds detected, the limited vertical extent of these compounds and the known depth to water at the Site, impacts to groundwater have not occurred based on the available data set.

The impacted environmental media at the site (namely soil, soil gas and crushed concrete) cannot be grouped and evaluated together as a unit given the many chemical, physical, regulatory and exposure differences associated with each media. The properties that define each environmental media and their evaluation in this HHRA are discussed below.

2.5.1 *Soil*

Soils as defined here are made of native materials and their lithology and geological composition are not different from native soils found throughout the City. Soils at the Site are unique in that they are known to have been impacted by historical site operations and human activity. Chemicals identified in soil at the site include metals, TPH, PAHs, PCBs and VOCs (Tables 2-3 through 2-9). Soil impacts are known to be limited to shallow, superficial soils. In addition, soil impacts are also known to be limited to a few isolated and well-defined locations. The potential health risk and hazards that may be associated with man-made chemicals detected in soil were evaluated in this HHRA following USEPA and OEHHA risk assessment guidance specific for the evaluation of contaminated soils.

2.5.2 *Crushed Concrete and Other Building Materials*

Crushed concrete as defined in this HHRA is made of non-metallic construction materials (concrete, brick, and asphalt) that were generated during demolition of onsite buildings and structures. Much of the building materials were crushed onsite using portable crushing equipment. This equipment was used to crush the material to particles with a diameter smaller than one-inch (2.54 centimeters). As previously described, crushed concrete was stored within the former basements from

demolished buildings (Buildings 11, 21 and 64) and piled in stockpiles onsite (Figure 4).

As shown on Tables 2-11 through 2-15, the only man-made chemical indentified in crushed material was Aroclor-1254, a member of the PCB family. PCBs are highly persistent in the environment; are resistant to chemical and biological degradation; can accumulate in biological systems and have the potential to cause adverse systemic effects as well as to cause cancer within the highly exposed populations.

The cleanup of PCB-impacted soil at Toxic Control Substances Control Act (TSCA) designated Sites is regulated under 40 CFR 761.61. In order to comply with TSCA, potential health risk and hazards posed by PCBs in crushed concrete were evaluated in this HHRA separately and independently from other environmental media. Specifically, health risk and hazards posed by PCBs in crushed concrete were evaluated in accordance with USEPA (2002 and 2010) risk assessment guidance and exposure factors.

2.5.3

Soil Gas

Soil gas is contained within soil pore spaces. Chemicals detected in soil gas can migrate vertically and enter a building at the site through cracks in building foundations. Future occupants of the site can then be exposed to chemicals detected in soil gas by inhalation of indoor air. As shown on Table 2-16, low levels of man-made chemicals, in particular tetrachloroethylene and carbon disulfide, were observed in soil gas at the Site. The potential health risks and hazards that may be associated with man-made chemicals detected in soil gas were evaluated in this HHRA following USEPA and OEHHA risk assessment guidance specifics for the evaluation of contaminated soil gas.

3.0

CHEMICALS OF POTENTIAL CONCERN

All organic compounds detected above laboratory reporting limits at least once in a soil, soil gas or crushed concrete sample were considered to be chemicals of potential concern (COPCs) for the Subject Property. No organic chemicals were “screened out” or excluded from the risk evaluation.

3.1

Background Metals in Soil

In a conventional risk assessment, metal elements detected in soil at concentrations deemed to be within natural, background concentrations are excluded from the risk evaluation (USEPA 1989 and DTSC 1997). In this HHRA the metals that were excluded from evaluation were arsenic and lead. The reasons these two metals were excluded are explained below:

- *Arsenic* - According to DTSC (2007) risk assessment guidance, arsenic in soil should not be included in risk evaluations when arsenic is found to be within natural, background concentrations. The Site-specific background arsenic concentration at the site is unknown. However, it is well accepted that Southern California soils are naturally rich in arsenic and that the upper background concentration is about 12 mg/kg (DTSC 2005). The maximum arsenic concentration in soil at the site is 11.9 mg/kg (Table 3-1). The 95 percent upper confidence limit on the arithmetic mean (95UCL) concentration in soils was calculated to be 5.61 mg/kg (Table 3-1). Therefore, arsenic in soil at the Subject Property is considered to be within background levels and was not included in this HHRA.
- *Lead* - The California Environmental Protection Agency (Cal-EPA; 2009) recently published a CHHSL for lead. The commercial/industrial CHHSL for lead is 320 mg/kg. Cal-EPA considers soil lead concentration lower than 320 mg/kg to pose no health threat to adult onsite workers. The maximum lead concentration in soil at the site is 107.0 mg/kg (Table 3-1). The 95UCL soil lead concentration was calculated to be 20.08 mg/kg (Table 3-1). Therefore, lead in soil at the Subject Property is considered to be well within levels that pose no health threat to future onsite workers and was not included in this HHRA. The

buried debris that was identified during the Site investigation activities (Area 24) contain elevated soluble lead, possibly due to the presence of former painted structures within the debris. Soil samples collected from beneath the concrete bowl-shaped structure that contained this debris did not contain elevated levels of total of soluble lead. The entire structure has not yet been removed as overlying building structures needed to be removed first. Additional confirmation samples of soil will be collected following the removal of the remaining debris, to document the lack of impacts to subsurface soils in this area.

3.2 *Statistical Analysis of Soil and Crushed Concrete Data*

A statistical analysis of soil and crushed concrete analytical data was conducted to estimate representative soil exposure point concentrations. Statistical parameters obtained for the soil metal data are presented in Table 3-1. Statistical parameters obtained for organic chemicals detected in soil and crushed concrete are presented in Table 3-2. For most organic chemicals, the maximum detected concentration was used as representative exposure point concentrations (Tables 3-1 and 3-2).

The USEPA (1992) recommends that the one-sided upper 95UCL be used as an upper bound chemical concentration that can be expected at a site. The 95UCL provides reasonable confidence that the true site average will not be underestimated (USEPA, 1992). According to the USEPA (1989) and DTSC (1996), risk assessment exposure concentrations should use the 95UCL for each COPC unless the 95UCL exceeds the maximum detected concentration for a particular chemical. Where the 95UCL exceeds the maximum detected concentration, the maximum detected concentration is used as the upper limit exposure concentration (USEPA, 1989). The 95UCL can exceed the maximum detected concentration for several reasons, including small sample sizes and large sample variances.

The statistical analyses were conducted using the USEPA developed software ProUCL (Version 4.00.05; Singh, Singh and Maichle, 2010). ProUCL was chosen because it was specifically developed to evaluate environmental data and it calculates multiple types of confidence limits. ProUCL printouts showing the 95UCLs are presented in Appendix C.

It should be noted that the 95UCL concentration for crushed concrete was calculated using only data collected from crushed concrete. Samples collected from soil, asphalt and concrete were not included in the “crushed concrete” data for the following reasons:

- The maximum soil PCB concentration was 2.37 mg/kg (samples SP-11-C-1 and L13-3; Table 2-6). This value is lower than the average PCB concentration detected in crushed concrete. Since crushed concrete exists at the site at isolated, distinct locations, the soil and “crushed concrete” can be treated as two separate media.
- Asphalt PCB data was not included with the “crushed concrete” data because Aroclor 1254 concentration in this media was very low (maximum concentration of 0.852 mg/kg at sample SP-ASP-7; Table 2-15). The low PCB concentration in asphaltic material could artificially reduce the estimated 95UCL concentration in “crushed concrete.” As the asphalt was in fact mixed with the “crushed concrete” the asphalt PCB data could be included. However, excluding the asphalt data from the crushed concrete data is a conservative measure incorporated into this risk assessment.
- Data labeled as collected from “Stockpiled Concrete” in Table 2-12 was collected from large chunks of demolished concrete. Analytical data obtained from these samples provide an indication of the presence of PCBs in the surface of the materials but would not be representative of PCB contained within the matrix of the concrete. Since analytical results obtained from the “concrete” samples may not provide a true representation of PCB concentrations in crushed concrete, these samples were not included in the calculation of the 95UCL PCB concentration in crushed concrete.

4.0

EXPOSURE ASSESSMENT

California health and environmental protection agencies require the remediation of chemical spills and leaks if the release represents a threat to human health and the environment. Similarly, cleanup of an accidental release has to be conducted to the extent that the threat posed by the release is reduced to acceptable levels. The purpose of this HHRA was to determine if the presence of anthropogenic chemicals in soil, soil gas and crushed concrete at the Subject Property represents a threat to future site occupants.

4.1

Conceptual Site Model

A Conceptual Site Model (CSM) shows all potentially complete exposure pathways for a given environmental source. The CSM identifies potential chemical sources, release mechanisms, transport media, routes of chemical migration through the environment, exposure media, and potential receptors.

As mentioned in Section 2.1, the site is located in a heavily industrialized area of San Bernardino County, California. Therefore, the site is likely to continue to operate as a commercial/industrial facility. Based on these conditions, the pathways by which human contact could occur with Site soil and soil gas is depicted on the Conceptual Site Model (CSM) shown on Figure 6. Similarly, the pathways by which human contact could occur with crushed concrete is depicted on the CSM shown on Figure 7, assuming the material is used to cover temporary, unpaved roads at the Site.

Under future exposure conditions, construction workers may come in contact with soils and crushed concrete during redevelopment of the site. In addition, affected soils and crushed concrete may be brought up to the surface where future onsite outdoor workers may come in contact with the materials. Therefore, the dermal and ingestion pathways are considered to be complete for construction workers as well as for future onsite outdoor workers (Figures 6 and 7).

It is safe to assume that current as well as future occupants of the Subject Property will receive their drinking water from municipal sources and will not depend on onsite groundwater wells for their water needs. Therefore, the groundwater exposure pathway is not considered to be a

complete exposure pathway for current and future onsite receptors (Figures 6 and 7).

It is conceivable that chemicals detected in soil and soil gas may volatilize and escape to the surface, where they may enter a building through their foundations or dissipate in ambient air (ASTM, 1995). The migration of chemical vapors in the vadose zone has been demonstrated at numerous facilities. Thus, the volatilization and intrusion of vapors into onsite buildings is considered to be a potential exposure pathway for future onsite indoor workers at this Site (see below).

4.1.1 *Potential Receptors*

Potential receptors are defined as humans that may contact (i.e., be exposed to) Site-related chemicals detected in soil, soil gas and/or crushed concrete. Consistent with USEPA guidance, current and reasonably anticipated future land use is considered when selecting potential receptors (USEPA, 1989). As described previously, future land use at this Site will be limited to commercial/industrial purposes. As such, the only potential human receptors at the Site include:

- Indoor Worker - A worker in a commercial building or office;
- Outdoor Nonintrusive Worker - A future facility maintenance worker who is not engaged in intrusive activities (i.e., digging into soil);
- Construction Worker - A future utility-line worker who is engaged in short-term intrusive activities; and,
- Offsite Residential Receptors. These residential receptors are assumed to be located a few feet across the street from the former Sunkist facility.

Potential risks and hazards to Site visitors are not quantitatively evaluated in this HHRA because their exposure would be significantly less than that of either the indoor or outdoor worker.

4.1.2 *Identification of Exposure Media and Pathways*

As stated previously, onsite and offsite receptors may be exposed to impacted soil, soil gas and crushed concrete. The three exposure media and their associated exposure pathways are discussed below.

Soil – Soil represents a source and transport medium for Site-related chemicals. Potential release mechanisms for contaminants in surface and shallow-subsurface soil include tracking, excavation, fugitive dust generation, volatilization, and uptake from contact (Figure 6). Many factors affect the bioavailability and release of chemicals from soil: soil geochemistry, temperature, pH, organic-carbon content, particle size, moisture content, and contaminant characteristics (such as vapor pressure, solubility, and adsorption/desorption rates). Uptake of soil contaminants also is affected by the biology of the receptor, including variables such as age, body size, sex, and metabolic and excretion rates. Human receptors may be indirectly exposed to contaminants from soil via inhalation of dust and may be directly exposed to contaminants in surface or shallow subsurface soils via incidental ingestion and dermal contact (Figure 6). Receptor-specific pathways for exposure to COPCs in soil that are considered in this HHRA include:

- **Indoor Worker** – These receptors are assumed to work inside a building and do not contact COPCs in soil; therefore, there are no complete soil exposure pathways for this receptor.
- **Outdoor Nonintrusive and Construction Workers** – Current and/or future outdoor nonintrusive workers and construction workers may be exposed to COPCs in soil via incidental ingestion and dermal contact with soil, inhalation of fugitive dusts from surface soils (containing semivolatile chemicals), and potential volatilization of VOCs to ambient air from soil that could be brought up to the surface as a result of construction activities.
- **Offsite Residential Receptors** – Offsite adult and child residential receptors may be exposed to Site-related dust. Thus, offsite residential receptors may be exposed to COPCs in soil via inhalation of fugitive dusts.

Crushed Concrete –For the purposes of conservatively evaluating risk associated with this media, the risk assessment assumes that crushed concrete produced at the site will be used as road base and that concrete dust may be generated from vehicular traffic. As described previously, some of the crushed concrete has been placed within basements at depths of up to 12 feet bgs in stockpiles onsite. As such this material is not available to generate dust. However, the assumption that this material could be brought to the surface and be available for dust generation is considered to be a conservative assumption for the purposes of this risk assessment. The crushed concrete at the Site primarily contains relatively

low levels of Aroclor 1254. Therefore, this HHRA evaluates the potential for chemicals detected in crushed concrete to migrate (along with crushed concrete particles) to a human receptor (Figure 7). Under this condition, crushed concrete will be assumed to serve as a chemical source and transport medium for Site-related chemicals. Potential release mechanisms for contaminants in crushed concrete include wind erosion and fugitive dust generation (Figure 7). Human receptors may be indirectly exposed to contaminants in crushed concrete via inhalation of concrete dust. Receptor-specific pathways for exposure to COPCs in crushed concrete that are considered include the following:

- **Indoor Worker** – These receptors are assumed to work inside a building and do not contact COPCs in crushed concrete; therefore, there are no complete exposure pathways for crushed concrete and this receptor.
- **Outdoor Nonintrusive Workers and Construction Workers** – These receptors may be exposed to PCBs in crushed concrete via incidental ingestion and dermal contact with crushed concrete. In addition, these workers may be exposed to crushed concrete dust while driving on the temporary road or while working outdoors near the crushed-concrete-pave road.
- **Offsite Residential Receptors** – Offsite adult and child residential receptors may be exposed to crushed concrete dust that may be generated by vehicular traffic traveling over the crushed-concrete-paved road. Thus, offsite residential receptors may be exposed to PCBs in crushed concrete via inhalation of fugitive dusts.

Indoor and Outdoor Air - Site-related VOCs may migrate into soil pore-space and then escape into indoor and outdoor air (Figure 6). This HHRA assumes that Indoor workers spend all of their working time indoors and will be exposed to chemicals volatilized from soil gas into indoor air via inhalation of indoor air. The indoor air exposure pathway is not considered to be complete for construction and maintenance workers and offsite residential receptors (Figure 6).

4.2 *Fate and Transport Considerations*

Chemical, physical, and biological processes can affect the fate and transport of chemicals in water, soil, and air. VOCs tend to volatilize rapidly from both surface and subsurface soil because of the relatively high vapor pressure of these compounds. Subsequent to volatilization,

these compounds can affect ambient air where human receptors can be exposed through the inhalation pathway. The magnitude of potential vapor emissions is estimated in the following sections.

4.2.1

Chemical Emissions to Onsite Outdoor and Indoor Air

Metals, PAHs, PCBs, TPH and a few VOCs were detected in soil at the Subject Property (Tables 2-3 through 2-9). In addition, PCBs were detected in crushed concrete. Exposure to these chemicals in air is expected to occur under the assumed outdoor nonintrusive worker, construction worker and offsite residential exposure scenarios (Figures 6 and 7).

Exposure to non-volatile chemicals may occur via inhalation of fugitive dust containing site-related chemicals. Inhalation exposure to non-volatile compounds is typically minor in fugitive dust when compared to direct ingestion exposure (USEPA, 2002). Nevertheless, a relationship must be estimated between the chemical concentration in soil and the concentration in air (secondary media) due to fugitive dust emissions from soil.

The DTSC, in their Preliminary Endangerment Assessment (PEA) Guidance Manual (DTSC, 1999), recommends using 0.05 milligrams per cubic meter (mg/m^3), the National Ambient Air Quality Standard (NAAQS) for the annual average respirable portion of suspended particulate matter, to estimate the chemical concentration in air. This approach is highly conservative since the DTSC assumes that the dust concentration in air is equal to the NAAQS of $0.05 \text{ mg}/\text{m}^3$, and that 100 percent of the chemical detected in soil is present in dust (DTSC, 1999). As an alternative approach for residential exposures, the USEPA (2002) and DTSC now recommend using a particulate emission factor (PEF) to model COPC concentrations in airborne dust. The PEF is used in this risk evaluation to estimate inhalation exposures to fugitive dust at the Subject Property.

The PEF represents an annual average emission rate based on wind erosion. The PEF equation can be found in Section 2.5.1 (Equation 5: *Derivation of the PEF*) of the *Soil Screening Guidance: User's Guide* (USEPA, 2002). The emissions part of the PEF equation is based on the "unlimited reservoir" model developed to estimate particulate emissions due to wind erosion (Cowherd et al., 1985). The dispersion part of the PEF equation includes a dispersion coefficient (Q/C) in units of grams per square meter-second per kilogram per cubic meter ($\text{g}/\text{m}^2\text{-s per kg}/\text{m}^3$). The Q/C

term was generated using the Industrial Source Complex Model and varies depending on the source area, city, and climatic zone.

For this site, the Q/C value of 40.61 g/m²-s per kg/m³ was selected as the inverse of the mean concentration at the center of an 11-acre square source in Los Angeles, California (USEPA, 2002). Using this Q/C term and the default assumption of 50 percent soil cover (USEPA, 2002), a PEF value of 5.89E+08 m³/kg was calculated for the site (Table 4-1). Even under a construction worker exposure scenario, the exposed ground surface is unlikely to consist of 100 percent. Therefore, 50% soil cover (buildings, access roads and or landscaped areas) was used to evaluate outdoor inhalation exposures to fugitive dust.

VOCs were detected in soil and soil gas samples (Table 2-16) collected at the Subject Property. Because these compounds are volatile, humans could potentially be exposed to vapors migrating through the soil to the surface. Therefore, both indoor and outdoor air exposures were evaluated for VOCs detected in soil and soil gas at the site, as discussed below.

Potential migration of vapors from soil to outdoor air was estimated using the volatilization factor (Equation 8: *Derivation of the VF*), as presented in Section 2.5.2 of the *Soil Screening Guidance* (USEPA, 2002). Default parameters for the Los Angeles area were used (e.g., the Q/C term as discussed above for the PEF formula). Volatilization factors (VFs) were calculated for the volatile VOCs detected in soil at the site (Table 4-2). The VFs were used in this risk evaluation to estimate outdoor inhalation exposures.

Potential migration of vapors to indoor air was estimated using the Johnson and Ettinger model (1991) modified to incorporate DTSC toxicity values. A mixture of site-specific (e.g., moisture content, bulk density, soil porosity) and default soil physical parameters were used in the model. The U.S. Soil Conservation Service Classification Chart showing centroid compositions, Figure 3 in the "*User's Guide for the Johnson and Ettinger (1991) Model for Subsurface Vapor Intrusion Into Buildings (Revised)*" (USEPA, 2003), was referenced to determine the "vadose zone soil type" used to estimate soil vapor permeability in the model. Based on the particle size distribution of soil at the Subject Property (percent silt, clay, and sand), a "sandy soil (S)" classification was selected for use in the model.

4.2.2

Chemicals Emitted to Offsite Outdoor Air

For this evaluation it was assumed that crushed concrete and impacted soil would be used as cover for an unpaved road at the site. It was also assumed that vehicular traffic over this road would produce dust and the dust would become airborne and impact residential receptors located downwind from the hypothetical unpaved road.

Fugitive dust releases associated with vehicles traveling on the hypothetical road were estimated using the following equation (USEPA 1988):

$$E_{VT} = k(5.9) \cdot \left(\frac{s}{12}\right) \cdot \left(\frac{Sp}{48}\right) \cdot \left(\frac{W}{2.7}\right)^{0.7} \cdot \left(\frac{w}{4}\right)^{0.5} \cdot \left(\frac{365 - Dp}{365}\right)$$

where:

- E_{VT} = Emission factor for vehicular traffic, kg/vehicle kilometer traveled.
- k = Particle size multiplier for particles equal to or less than 10 microns in size = 0.45 (USEPA 1988)
- s = Silt content of road surface material, percent = 3.9 (from default value for California soils; <http://www.epa.gov/ttn/chief/ap42/ch13/related/c13s02-2.html>)
- Sp = Mean vehicle speed, kilometers per hour = 16 (equivalent to 10 miles per hour)
- W = Mean vehicle weight, metric tons = 3.4 (assuming a new base model Ford 150 pickup truck)
- w = Mean number of wheels = 4 (default)
- Dp = Number of days with at least 0.254 millimeters in precipitation per year = 40 (USEPA 1988)

Using the above equation and parameters, the dust emission rate for the site was estimated to be 8.67E-02 kilograms per kilometer traveled. Since the site occupies an area of only 11.1 acres, it was assumed that service vehicles would travel no more than 2 kilometers per day over unpaved

roads at the site. Under these conditions, vehicles traveling onsite roads would emit a maximum of 0.17 kilograms of dust per day. This dust emission rate was used in the equation below to estimate offsite dust concentration in air.

The amount of dust that could reach a potential receptor downwind from the unpaved roads was estimated using a Gaussian dispersion model. The Gaussian model is recommended for simple applications as it provides the maximum expected concentration for receptors located downwind from the emission source. The Gaussian model is a conservative air dispersion model because the wind is assumed to blow in the direction of the receptor 100 percent of the time. The following is the equation that was used to estimate off-site ambient dust concentrations:

$$C_o = \left(\frac{Q}{(2\pi) \cdot u \cdot \sigma_z \cdot \sigma_y} \right)$$

where:

- C_o = Off-site concentration of chemical in air, mg/m³
- Q = Emissions rate, mg/second
- u = Average wind speed, meters/second
- σ_z = Dispersion in the vertical (z) direction
- σ_y = Dispersion in the horizontal (y) direction

The average wind speed used in the model was taken from the average annual wind speed reported for the Ontario International Airport (<http://www.calclim.dri.edu/ccda/comparative/avgwind.html>). σ_z and σ_y are functions of the atmospheric stability class (i.e., a measure of the turbulence in the ambient atmosphere) and of the downwind distance to the receptor. The downwind distance to the receptor was assumed to be 20 meters (65.6 feet). A mid-range turbulence factor (Stability Class C) was assumed for the site. The more turbulence, the greater the degree of dispersion. σ_z and σ_y values

were calculated using the online Gaussian Equation calculator at: <http://www.csun.edu/~vchsc006/469/gauss.htm>. Application of the Gaussian model with the above-defined parameters produced an estimated dust concentration at the offsite residential receptor exposure point of 2.02E-08 Kg/m³. The chemical concentration in air at the offsite resident exposure point was obtained by multiplying the chemical concentration in soil (or crushed concrete) by the dust concentration in air obtained above (Table 4-3).

4.3 *Dose Estimation*

This section discusses the methods used to quantify the dose received by the human receptors evaluated in this risk assessment. A dose of a chemical is the amount of chemical that is absorbed by the body per kilogram of body weight. The dose can be received through ingestion, inhalation or dermal exposure. The dose received is expressed in milligrams of chemical absorbed per kilogram of body weight per day. Intake assumptions, including absorption and bioavailability factors, exposure route and duration, age of receptor(s), body weight(s), and contact rates, were used to calculate the average daily dose. This estimated dose was then used in the risk characterization (Section 6.0) to estimate the potential for carcinogenic health risks and noncarcinogenic adverse health effects from exposure to the COPCs.

4.3.1 *Quantification of Total Ingestion Exposure*

Direct ingestion of chemical-bearing soil and/or dust has been identified to be a potential exposure pathway for onsite outdoor, nonintrusive workers, construction workers and offsite residential receptors (Figures 6 and 7). Typically, incidental soil ingestion may occur if an individual eats, drinks, smokes, or participates in earth moving or excavation activities in affected soil. Oral intake of soil or dust is mathematically expressed by:

$$OIF = \frac{IR \cdot EF \cdot ED \cdot CF}{BW \cdot AT}$$

where:

OIF	=	Oral intake factor, kg/kg-day
IR	=	Ingestion rate, mg/day
EF	=	Exposure frequency, days/year
ED	=	Exposure duration, years
CF	=	Conversion factor, 1.0E-6 kg/mg

As stated in Section 2.5.2, PCBs are unique in that cleanup of soils containing this family of chemicals is regulated under the USEPA's Toxic Substances Control Act (TSCA; 40 CFR 761.61). For this reason, potential health risk and hazards posed by PCBs in crushed concrete were evaluated in this HHRA using only exposure parameters recommended by the USEPA (2002 and 2010). Exposure parameters (including IR, EF and ED) used to evaluate exposure to PCBs in crushed concrete are presented in Table 4-4. For the evaluation of chemicals detected in soil and soil gas, exposure parameters recommended by the DTSC (HERD 2005) were used. Exposure parameters used to characterize onsite workers exposed to soil are presented in Table 4-5. Exposure parameters used to characterize offsite residential receptors exposed to outdoor air are presented in Table 4-6.

It should be noted that the onsite worker exposure scenario evaluated here assumes that chemical-impacted soils can be found anywhere at the site within the upper 10 feet of soil. Thus, the fraction of soil that is contaminated and subject to exposure was set to 100 percent (Table 4-5). The assumption of 100 percent exposure fraction cannot be made for crushed concrete. The total volume of crushed and noncrushed concrete presently at the site has been estimated at approximately 32,215 30,000 cubic yards. This volume of crushed concrete represents less than 18 percent of the total volume of soil at the site (179,080 cubic yards from a surface of 11.1 acres down to a depth of 10 feet). Under these conditions, construction workers will not be working exclusively on crushed concrete. Since crushed concrete is likely to be found only in shallow soils (as fill material) and/or road cover, the fraction of exposure is likely to be much

lower than 50 percent. Thus, in an effort to present a realistic, conservative evaluation of risks, the fraction of exposure for construction workers exposed to crushed concrete was set to 50 percent (Table 4-4).

The intake factors estimated for each potential receptor were combined with chemical soil concentrations to estimate daily oral dose for each type of onsite and offsite receptor (see Section 6.0).

4.3.2 *Quantification of Total Dermal Exposure*

The most likely receptors that could have direct dermal exposure to soil and crushed concrete are the onsite construction workers (Figure 6). However, onsite outdoor, nonintrusive workers may also come in contact with chemical-impacted soil and crushed concrete while at the site (Figures 6 and 7). Dermal intake factors were estimated by the following equation:

$$DIF = \frac{DSA \cdot DAF \cdot AF \cdot EF \cdot ED \cdot CF}{BW \cdot AT}$$

where:

DIF	=	Dermal intake factor, kg/kg.day
DSA	=	Dermal surface area, cm ² /day
DAF	=	Dermal absorption factor, unitless
AF	=	Adherence factor, mg/cm ²

All others as previously defined.

The dermal intake factors estimated for all on-site receptors were combined with chemical soil concentrations to estimate the daily dose of a chemical absorbed through the skin by each type of receptor.

4.3.3

Quantification of Outdoor Air Inhalation Exposure

The potential inhalation exposures were calculated using the following equation:

$$IhIF = \frac{IhR \bullet ET \bullet EF \bullet ED}{BW \bullet AT}$$

where:

IhIF	=	Inhalation intake factor, m ³ /kg-day
IhR	=	Inhalation rate, m ³ /hour
ET	=	Exposure time, hours/day
EF	=	Exposure frequency, days/year
ED	=	Exposure duration, years
BW	=	Body weight, kg
AT	=	Averaging time, days (used the equivalent of 70 years for carcinogens and same value as ED for noncarcinogens).

Inhalation intake factors were combined with chemical exposure point concentrations in the risk characterization section (Section 6.0) to obtain the total dose received by each receptor.

4.3.4

Quantification of Indoor Air Inhalation Exposure

The quantification of indoor air exposures and subsequent cancer risks and health hazards were evaluated using a different approach. The Johnson and Ettinger model used to simulate vapor intrusion contains a module for estimating potential doses as well as cancer risks and health hazards associated with a given dose. For this assessment, the Johnson and Ettinger model was used to estimate the potential health risks and

hazards associated with indoor VOC exposures. For this assessment the potential health risk and hazards posed by VOCs detected in “shallow” and “deep” soils were evaluated. Potential health risk and hazards posed by VOCs detected in shallow soil were evaluating using only analytical data collected from soil gas at a depth of 5 feet bgs (Table 2-16). Potential health risk and hazards posed by VOCs detected in deep soil gas were evaluating using only analytical data collected at a depth of 15 feet bgs (Table 2-16).

The toxicity assessment characterizes the relationship between the magnitude of exposure to a COPC and the nature and magnitude of adverse health effects that may result from such exposure. For purposes of calculating exposure criteria to be used in risk assessments, adverse health effects are classified into two broad categories: carcinogens, and noncarcinogens. Toxicity values and exposure criteria are generally developed based on the threshold approach for noncarcinogenic effects and the non-threshold approach for carcinogenic effects. Toxicity values may be based on epidemiological studies, short-term human studies, and subchronic or chronic animal data.

In this assessment, chronic toxicity criteria were selected (in order of preference) from the following sources:

- DTSC's Toxicity Criteria Database. This database contains values developed by DTSC staff for environmental contaminants commonly found at California sites. Values current as of March 2011 were obtained from the Toxicity Criteria Database. <http://www.oehha.org/risk/ChemicalDB/index.asp>.
- Office of Environmental Health Hazard Assessment (OEHHA) Chronic Reference Exposure Levels Adopted by OEHHA as of March 2011 (http://www.oehha.org/air/chronic_rels/AllChrels.html).
- USEPA's Integrated Risk Information System (IRIS). IRIS is an on-line database that contains USEPA-approved cancer and noncancer toxicity values. Values current as of March 2011 were verified in IRIS (USEPA 2011).
- USEPA's Provisional Peer Reviewed Toxicity Values (PPRTVs). PPRTVs are available from an on-line database, developed by the Office of Research and Development/National Center for Environmental Assessment/Superfund Health Risk Technical Support Center when requested by USEPA's Superfund program. Values current as of October 2010 were obtained from the USEPA's Regional Screening Levels (RSL) table (USEPA 2010).

- DTSC's Interim Guidance, Evaluating Human Health Risks from Total Petroleum Hydrocarbons (TPH). Toxicity values for petroleum hydrocarbons were taken from DTSC (2009) guidance. It should be noted that the guidance has been removed from circulation by the DTSC.

In certain cases where toxicity values were not available from any of the recommended sources, toxicity values from compounds with similar chemical structures were selected as surrogates. Where route-specific toxicity values were not available, route-to-route extrapolations were used to derive toxicity values for organic compounds, but not for metals, as consistent with USEPA Region IX conventions for route-to-route extrapolations (USEPA 2010).

5.1 *Carcinogenic Effects*

Certain chemicals are regulated as carcinogens based on the likelihood that exposure may cause cancer in humans. Numerical estimates of cancer potency for these chemicals are presented as cancer slope factors (CSFs). The CSF defines the cancer risk due to constant lifetime exposure to one unit of a carcinogen (units of risk per mg/kg-day). CSFs are derived by calculating the 95UCL on the slope of the linearized portion of the dose-response curve using the multistage cancer model on the study data. Use of the 95UCL of the slope means that there is only a 5% chance that the probability of a response could be greater than the estimated value for the experimental data used. This is a conservative approach and may overestimate the actual risk given that the actual risk is expected to be between zero and the calculated value. Carcinogenic slope factors assume no threshold for effect, i.e. all exposures to a chemical are assumed to be associated with some risk. Table 5-1 presents the CSFs used in this assessment.

5.2 *Non-carcinogenic Effects*

For the purpose of assessing risk associated with noncarcinogenic effects, the USEPA has adopted a science policy position that protective mechanisms such as repair, detoxification, and compensation must be overcome before an adverse health effect is manifested. Therefore, a range of exposures exists from zero to some finite value (a threshold) that can be tolerated by the organism without appreciable risk of adverse effects occurring.

Noncarcinogenic effects were evaluated using reference doses (RfDs) developed by the USEPA. The RfD is a health-based criterion based on the assumption that thresholds exist for noncarcinogenic toxic effects. In general, the RfD is an estimate (with uncertainty) of a daily exposure to the human population that is likely to be without appreciable risk of chronic effects during a lifetime of exposure. RfDs are expressed as acceptable daily doses in milligrams of compound per kilogram of body weight per day (mg/kg-day). Table 5-1 presents the RfDs used in this assessment.

The risk characterization section provides a quantitative estimation of the health risks associated with chemical exposure. The risk characterization used the toxicity information from Section 5.0; the exposure factors estimated in Section 4.0; and the estimated chemical exposure point concentrations from Section 3.0 to evaluate both noncarcinogenic and carcinogenic health effects. Noncarcinogenic health effects were characterized with respect to established regulatory criteria and carcinogenic health risks were characterized with respect to acceptable cancer risks.

Health risk and hazard estimates presented in this section have been developed for onsite indoor workers, outdoor nonintrusive workers, construction workers and offsite residential receptors. For all exposure scenarios evaluated, health risk and hazards were estimated assuming:

1. ***Exposure to Chemical-Affected Soil.*** It was assumed that the upper 10 feet of chemical-affected soils would be excavated and exposed to the surface. Under these conditions, it was assumed that outdoor nonintrusive and construction workers would have direct contact with soil and dust through the ingestion, dermal contact and inhalation pathways. In addition, it was assumed that offsite residential receptors could be exposed to dust generated at the site from wind erosion or vehicular traffic over unpaved roads.
2. ***Exposure to Chemical-Affected Crushed Concrete.*** It was assumed that crushed concrete generated from the demolition of onsite buildings and structures would be used as road base at the site. It was also assumed that some of the crushed concrete would be used as fill material under future buildings and structures. Under these conditions, it is likely that the only onsite receptors that will be exposed to crushed concrete are the outdoor nonintrusive and construction workers. These receptors would be exposed to crushed concrete through the ingestion, dermal contact and inhalation pathways. In addition, it was assumed that offsite residential receptors could be exposed to crushed concrete dust generated at the site from vehicular traffic over unpaved roads.
3. ***Exposure to Chemical-Affected Indoor Air.*** It was assumed that an industrial or commercial building will be built at the site. Under these conditions, VOCs were assumed to enter either the future building(s)

through cracks in their foundations. Onsite indoor workers may then be exposed to VOCs while indoors. The indoor air exposure pathway was not considered to be applicable to outdoor workers, construction workers or offsite residential receptors.

6.1 *Noncarcinogenic Risk Characterization for Soil and Crushed Concrete Exposure*

The evaluation of noncarcinogenic health hazards began with a calculation of the hazard quotient or HQ for each chemical. The HQ is defined as the ratio of the average daily dose of chemical (ADD) to the reference dose (RfD). The HQ can be expressed according to the following equation:

$$HQ = \frac{ADD}{RfD}$$

where:

$$ADD = EPC \bullet \textit{Pathway Specific EFn}$$

and:

HQ	=	Hazard quotient, unitless
ADD	=	Average daily dose, mg/kg/day
RfD	=	Reference dose, mg/kg/day
EPC	=	Exposure point concentration, mg/m ³ for air and mg/kg for soil
EFn	=	Exposure factor for noncarcinogens, m ³ /kg-day for inhalation and kg/kg-day for oral and dermal.

The HQs for each chemical and all exposure pathways were summed to estimate the hazard index (HI) for each receptor as follows:

$$HI = \sum_n^I HQ_i$$

where:

HI = Hazard index, unitless

HQ_i = as defined above, unitless

The estimated HIs are compared to an acceptable hazard level. Implicit in the HI is the assumption of a threshold level of exposure below which no adverse effects are expected to occur. For example, if the HI exceeds unity (because site-specific exposure exceeds the RfD), then the potential for noncancer adverse effects may exist. In general, the greater the value above 1.0, the greater the potential hazard. In contrast, HIs of less than 1.0 indicate that no adverse health effects are expected to occur from exposure to chemicals at the site.

The HIs and HQs estimated for outdoor nonintrusive workers and construction workers exposed to chemical-affected soil through the ingestion, dermal and inhalation pathway are presented in Table 6-1. The HIs and HQs estimated for outdoor nonintrusive workers and construction workers exposed to crushed concrete through the ingestion, dermal and inhalation pathway are presented in Table 6-2. Supporting calculations for each exposure scenario and exposure pathway are presented in Appendix D. The HIs and HQs estimated for offsite residential receptors exposed to chemical-affected dust (from soil and crushed concrete) through the inhalation pathway are presented in Table 6-3. Supporting calculations for each exposure pathway are presented in Appendix E. The estimated HQs for each exposure scenario are summarized below:

Onsite Worker Exposure to Soil

- 0.57 for outdoor nonintrusive workers exposed to soil through the ingestion, dermal and inhalation pathways (Table 6-1).
- 1.9 for construction workers exposed to soil through the ingestion, dermal and inhalation pathways (Table 6-1).

Onsite Worker Exposure to Crushed Concrete

- 0.60 for outdoor nonintrusive workers exposed to crushed concrete through the ingestion, dermal and inhalation pathways (Table 6-2).
- 0.74 for construction workers exposed to crushed concrete through the ingestion, dermal and inhalation pathways (Table 6-2).

Hypothetical Residential Receptors

- 3.6E-02 for hypothetical child residential receptors exposed to dust (from soil and crushed concrete) through the outdoor air inhalation pathway (Table 6-3).

According to the USEPA (1989), if the HQ for a combination of chemicals is less than unity (1.0), there is no concern for potential chronic adverse health effects from the chemical exposures. The only HI that exceeded the value of 1.0 was that calculated for onsite construction workers. The chemicals responsible for the exceedance are mid-range hydrocarbons (TPH C8-C36). Therefore, it can be concluded that, with the exception of mid-range TPH, exposure to chemical-affected soil, crushed concrete, and outdoor air for the onsite workers (including construction workers) and offsite residential receptors is not associated with a concern for potential chronic adverse health effects.

6.2 *Incremental Cancer Risks for Outdoor Soil and Dust Exposure*

Cancer risks were estimated as the incremental probability of an individual developing cancer over a lifetime as a result of exposure to a potential carcinogen (i.e., incremental or excess individual lifetime cancer risk; USEPA, 1989).

Cancer risks are expressed as the upper-bound, increased likelihood of an individual developing cancer as a result of exposure to a particular chemical. For example, a cancer risk of 1E-04 refers to an upper-bound increased chance of one in ten thousand of developing cancer over a lifetime (0.01 percent risk). The potential increase in cancer risk from exposure to the chemicals detected in soil at the site is in addition to a background risk of Americans developing cancer. The background risk is one chance in three (0.3 or 3E-01) for every American female, and one chance in two (0.5 or 5E-01) for every American male, of eventually developing cancer (ACS, 1997). The chemical-specific exposure estimates (i.e., the lifetime average daily dose or LADD) are multiplied by the

chemical- and route-specific slope factor to arrive at a unitless probability (e.g., 1E-05) of an individual developing cancer.

The LDD estimated for each COPC represents the estimated amount of chemical absorbed daily over a lifetime. The LDD is used to calculate a carcinogenic risk as follows:

$$Risk = (LADD) \bullet SF$$

Where:

$$LADD = Co \bullet Pathway\ Specific\ EFc$$

And:

Risk	=	Upper bound incremental lifetime carcinogenic risk, unitless
LADD	=	Lifetime averaged daily dose, mg/kg/day
Co	=	Exposure point concentration, mg/m ³ (in air) and mg/kg (in soil)
EFc	=	Intake factor for carcinogens, m ³ /kg-day for inhalation and kg/kg-day for oral and dermal.
SF	=	Cancer slope factor, (mg/kg/day) ⁻¹

The incremental cancer risks estimated for outdoor nonintrusive and construction workers exposed to chemical-affected soil through the ingestion, dermal and inhalation pathway are presented in Table 6-1. The incremental cancer risks estimated for outdoor nonintrusive and construction workers exposed to crushed concrete through the ingestion, dermal and inhalation pathway are presented in Table 6-2. Supporting calculations for each exposure pathway are presented in Appendix D. The incremental cancer risks estimated for offsite residential receptors exposed to chemical-affected dust (from soil and crushed concrete) through the inhalation pathway are presented in Table 6-3. Supporting calculations for these receptors are presented in Appendix E. The estimated incremental cancer risks for the exposure scenarios evaluated were:

Onsite Worker Exposure to Soil

- 3.8E-05 for outdoor nonintrusive workers exposed to soil through the ingestion, dermal and inhalation pathways (Table 6-1).
- 5.6E-06 for construction workers exposed to soil through the ingestion, dermal and inhalation pathways (Table 6-1).

Onsite Worker Exposure to Crushed Concrete

- 8.6E-06 for outdoor nonintrusive workers exposed to crushed concrete through the ingestion, dermal and inhalation pathways (Table 6-2).
- 4.2E-07 for construction workers exposed to crushed concrete through the ingestion, dermal and inhalation pathways (Table 6-2).

Hypothetical Residential Receptors

- 7.1E-07 for offsite adult and child residential receptors exposed to dust (from soil and crushed concrete) through the outdoor air inhalation pathway (Table 6-3).

The calculated excess cancer risks were compared to the risk level considered acceptable by federal and state regulatory agencies. The target cancer risk level identified by the DTSC in the PEA Guidance Manual is 1 in one million (1.0E-06). However, the USEPA has established acceptable incremental cancer risk levels to be within the risk range of 1 in 10,000 (1.0E-04) and 1.0E-06; risks greater than 1.0E-04 are generally considered unacceptable. Cal-EPA has defined a risk of 1 in 100,000 (1.0E-05) as the “no significant level” for carcinogens under California’s Safe Drinking Water and Toxic Enforcement Act (Proposition 65). Further, most California air districts use the 1.0E-05 risk level as the notification trigger level under California’s AB2588 Toxic Hot Spots Program. Thus, although agencies will exercise caution in determining whether risks within the range of 1.0E-04 and 1.0E-06 require additional investigation or some form of risk management, there is a general precedent that predicted cancer risks that are on the low end of this range will generally be considered acceptable and not warrant further evaluation.

With the exception of the cancer risk estimated for outdoor nonintrusive workers exposed to soil, the cancer risks estimated here for onsite workers are all below the 1E-05 benchmark established by Proposition 65. The

chemicals responsible for the exceedance are PAHs detected in soil. In fact PAHs account for up to 98 percent of the estimated cancer risk for outdoor nonintrusive workers exposed to soil. The incremental cancer risk estimated for offsite residential receptors is less than the 1.0E-06 benchmark (DTSC 1999).

Therefore, it can be concluded, except for PAHs in soil, exposure to chemical-affected soil, crushed concrete and outdoor air for onsite workers and offsite residential receptors is not considered to pose a significant health risk.

6.3 *Noncarcinogenic Risk Characterization for Indoor Air Exposure*

Potential health hazards that could result from vapor intrusion were evaluated using a slightly different method. The Johnson and Ettinger model used to simulate vapor intrusion contains a module for estimating potential doses as well as cancer risks and health hazards associated with a given dose. For this assessment, the Johnson and Ettinger model was used to estimate the potential health risks and hazards associated with indoor worker exposures. For this assessment the potential health risk and hazards posed by VOCs detected in “shallow” and “deep” soils were evaluated. Potential health risk and hazards posed by VOCs detected in shallow soil were evaluated using only analytical data collected at a depth of 5 feet bgs (Table 6-4). Potential health risk and hazards posed by VOCs detected in deep soil gas were evaluated using only analytical data collected at a depth of 15 feet bgs (Table 6-5). A copy of the Johnson and Ettinger model spreadsheets used in this evaluation is included in Appendix F.

The total hazard quotient estimated to result from indoor worker inhalation of vapors emanating from VOCs detected in shallow soil was estimated to be 3.0E-02 (Table 6-4). The total hazard quotient estimated to result from inhalation of vapors emanating from VOCs detected in deep soil was estimated to be 3.5E-03 (Table 6-4). Again, the estimated hazard quotients are below the benchmark value of 1.0. A copy of the models used to estimate health risks and hazard associated with onsite worker exposure to indoor air are presented in Appendix F.

6.4 *Incremental Cancer Risks for Indoor Air Exposure*

The quantification of indoor air exposures and subsequent cancer risks were also evaluated using the Johnson and Ettinger model. For this

assessment, separate model runs were conducted for VOCs detected at depths of 5 and 15 feet below ground surface.

The total cancer risk from indoor worker inhalation of vapors emanating from the potential soil gas source at a depth of five feet bgs was estimated to be 2.5E-06 (Table 6-4). The total cancer risk from indoor worker inhalation of vapors emanating from the potential soil gas source at a depth of 15 feet bgs was estimated to be 8.3E-07 (Table 6-5). A copy of the models used to estimate cancer risks and health hazards associated with exposure to indoor air are presented in Appendix F.

The HHRA presented in this report evaluated the potential health risks posed by the presence of anthropogenic chemicals in soil and soil-gas under the Subject Property. The assessment included the evaluation of potential health risks to onsite outdoor nonintrusive workers, construction workers and offsite residential receptors.

This HHRA evaluated exposures to chemicals in soil, crushed concrete and soil gas under three distinct exposure scenarios:

1. ***Exposure to Chemical-Affected Soil.*** It was assumed that the upper 10 feet of chemical-affected soils would be excavated and exposed to the surface. Under these conditions, it was assumed that outdoor nonintrusive and construction workers would have direct contact with soil and dust through the ingestion, dermal contact and inhalation pathways. In addition, it was assumed that offsite residential receptors could be exposed to dust generated at the site from wind erosion or vehicular traffic over unpaved roads.
2. ***Exposure to Chemical-Affected Crushed Concrete.*** It was assumed that crushed concrete generated from the demolition of onsite buildings and structures would be used as road base at the site. It was also assumed that some of the crushed concrete would be used as fill material under future buildings and structures. Under these conditions, it is likely that the only onsite receptors that will be exposed to crushed concrete are the outdoor nonintrusive and construction workers. These receptors would be exposed to crushed concrete through the ingestion, dermal contact and inhalation pathways. In addition, it was assumed that offsite residential receptors could be exposed to crushed concrete dust generated at the site from vehicular traffic over unpaved roads.
3. ***Exposure to Chemical-Affected Indoor Air.*** It was assumed that an industrial or commercial building will be built at the site. Under these conditions, VOCs were assumed to enter either the future building(s) through cracks in their foundations. Onsite indoor workers may then be exposed to VOCs while indoors. The indoor air exposure pathway was not considered to be applicable to outdoor workers, construction workers or offsite residential receptors.

For this assessment, conservative fate and transport models were used to simulate potential chemical migration, vapor intrusion and onsite and offsite receptor uptake. Results of the fate and transport modeling were used to estimate potential chemical doses that may be received by future onsite workers and offsite residential receptors. In all cases, modeling parameters and assumptions used in this assessment were conservative in order not to underestimate potential health risks and hazards posed by chemicals detected in soil, soil gas and crushed concrete.

Results of the HHRA also indicate that Aroclor 1254 in crushed concrete at concentrations having a 95UCL of less than 6.4 mg/kg do not pose a significant health risk to future onsite workers and offsite residents. As some of the existing basement fills and discrete stockpiles appear to contain concentrations in excess of 6.4 mg/kg, some level of removal of crushed concrete appears to be necessary. In addition, the results of the HHRA indicate that construction workers may be exposed to mid-range hydrocarbons (TPH C8-C36) in soil at levels that represent a potential health risk. Finally, the HHRA results indicate that the elevated PAHs levels in soil may represent an unacceptable level of carcinogenic risk to outdoor nonintrusive workers.

Based on the findings of this HHRA, the following suggestions and recommendations are made:

1. Crushed concrete containing Aroclor 1254 at concentrations higher than 6.4 mg/kg should remain segregated. Based on the currently available data, the only crushed concrete that appears to be present at this levels is present in Basement 21 and stockpiles W-N, D, 10, 16 and 17/18, as shown on Figure 5.
2. TPH-impacted soils at concentrations of greater than 13,000 mg/kg should be removed from the Site to eliminate the potential unhealthy levels of exposure to future construction workers. Based on the available Site data, soil excavation programs conducted at AOCs B-5 and D-1, and at former Lift 13 (L-13) would result in the removal of mid-range hydrocarbons in excess of the recommended Site-specific cleanup levels.
3. Cleanup levels for PAHs can be set at the DTSC-established ambient soil concentrations because there is historical evidence

that PAHs are found in surface soils throughout Southern California. PAHs are known to be produced by the incomplete combustion of fossil fuels and hence they can be readily found in urban environments. For this reason, it is recommended that cleanup levels for PAHs be set at established ambient concentrations. ENVIRON (1998) and the DTSC (1996) estimated a 95 Upper Tolerance Limit concentration of 0.9 mg/kg for ambient urban PAHs concentrations in Southern California soils. Based on the available Site data, a soil excavation programs conducted at AOCs D-5-1 would result in the removal of PAHs in excess of the recommended Site-specific cleanup levels.

It should be noted that the HHRA was based on site-specific data as well as conservative (health-protective) assumptions, estimates, models and parameters. Therefore, the results are not absolute estimates of health risks at the Subject Property but are health-protective estimates.

The frequency and duration of soil and soil gas contact activities are a significant factor affecting the potential for adverse human health impacts from the site. In addition, the chemical distribution in site soils can significantly affect the interpretation of risk results based on the exposure point concentrations used in the analysis. These factors are discussed in more detail below.

This HHRA was based on the application of conservative methods and assumptions in all phases of the assessment. Because exposure point concentrations were derived from fate and transport modeling, conservative assumptions and methodology were necessarily employed to eliminate the possibility of underestimating risks. This practice, although commonly used in the risk assessment process necessarily introduces a significant level of conservatism in the conclusions derived from the assessment. Examples of some of the conservatism in this assessment include:

- The assumption that receptors at the Subject Property would be exposed to chemicals in soil, crushed concrete and indoor air 100 percent of the time. In reality, onsite receptors are not likely to be there for more than eight hours a day, for no more than 10 years.
- The assumption that onsite workers have contact with soil and/or crushed concrete. However, it is known that the entire surface area of the site is likely to be occupied by buildings, asphalt or landscaped areas. Thus, onsite workers will not come in contact with soil and/or crushed concrete while at the site.
- Carcinogenic risks for all pathways for onsite workers were based on an exposure of 250 days per year for 25 years. A more realistic exposure scenario for a typical worker would be to assume an exposure frequency of 250 days per year for duration of no more than seven years.
- It was also assumed that COPC concentrations would remain constant over time. It is more likely that, due to natural degradation processes, COPC concentrations would decrease over time. Thus, estimated COPC intake would decrease over time,

which would result in lower risk estimates than presented in the HHRA.

- Toxicity values used in risk assessments present overestimates of the potential toxicity of chemicals to humans. Assumptions used to develop toxicity values include the addition of safety factors to account for uncertainties associated with extrapolating high doses to low doses to account for uncertainties associated with the use of laboratory animal studies to assess potential toxicity to human receptors.

A risk evaluation that relies upon conservative input values can be used as a valuable tool when risks are shown to be *de minimus*, as reported in this risk assessment. The reader of this risk assessment can confidently interpret the reported risk as a conservative overestimate of any site-related risks.

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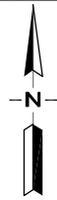
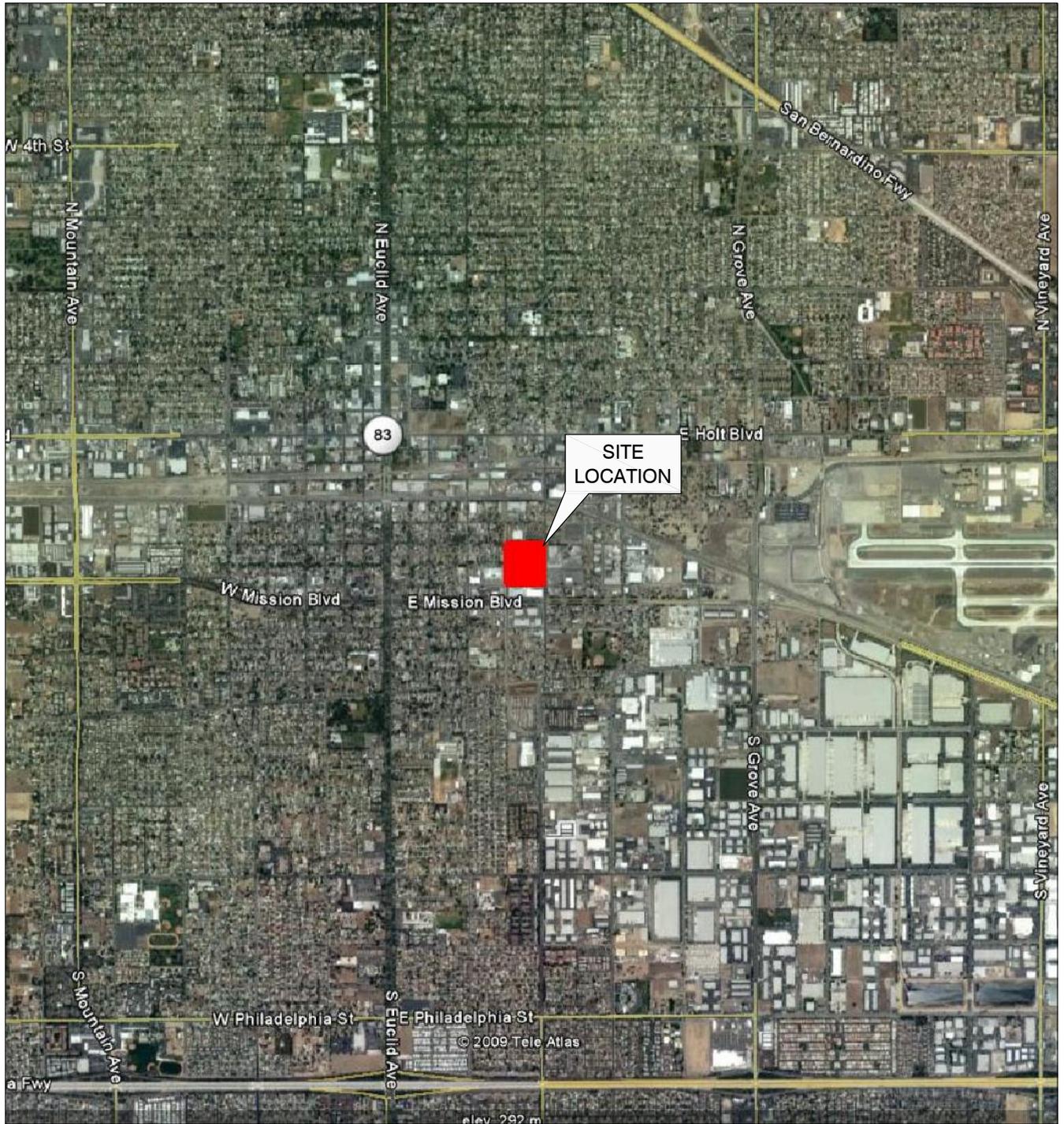
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Figures



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SITE LOCATION MAP
SUNKIST CITRUS PROCESSING PLANT
 616 East Sunkist Street, Ontario, California

Project No.
08010001

Figure
1

SUNKIST STREET

LEGEND

Operational Area

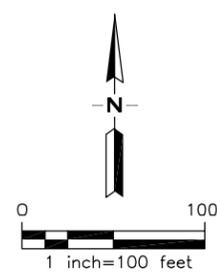
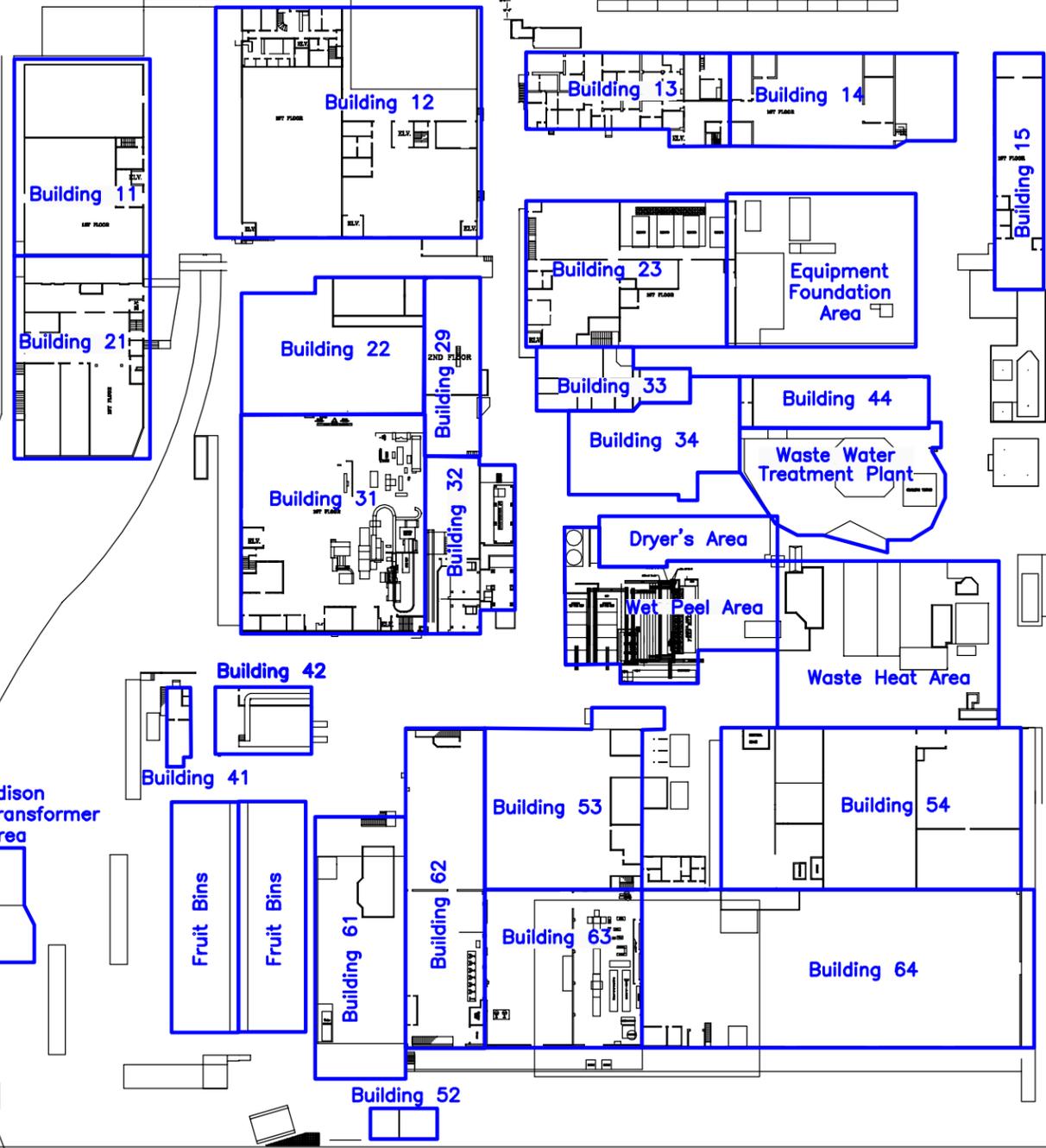
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STORM DRAIN

STAIRS

CAMPUS AVE

CALIFORNIA STREET



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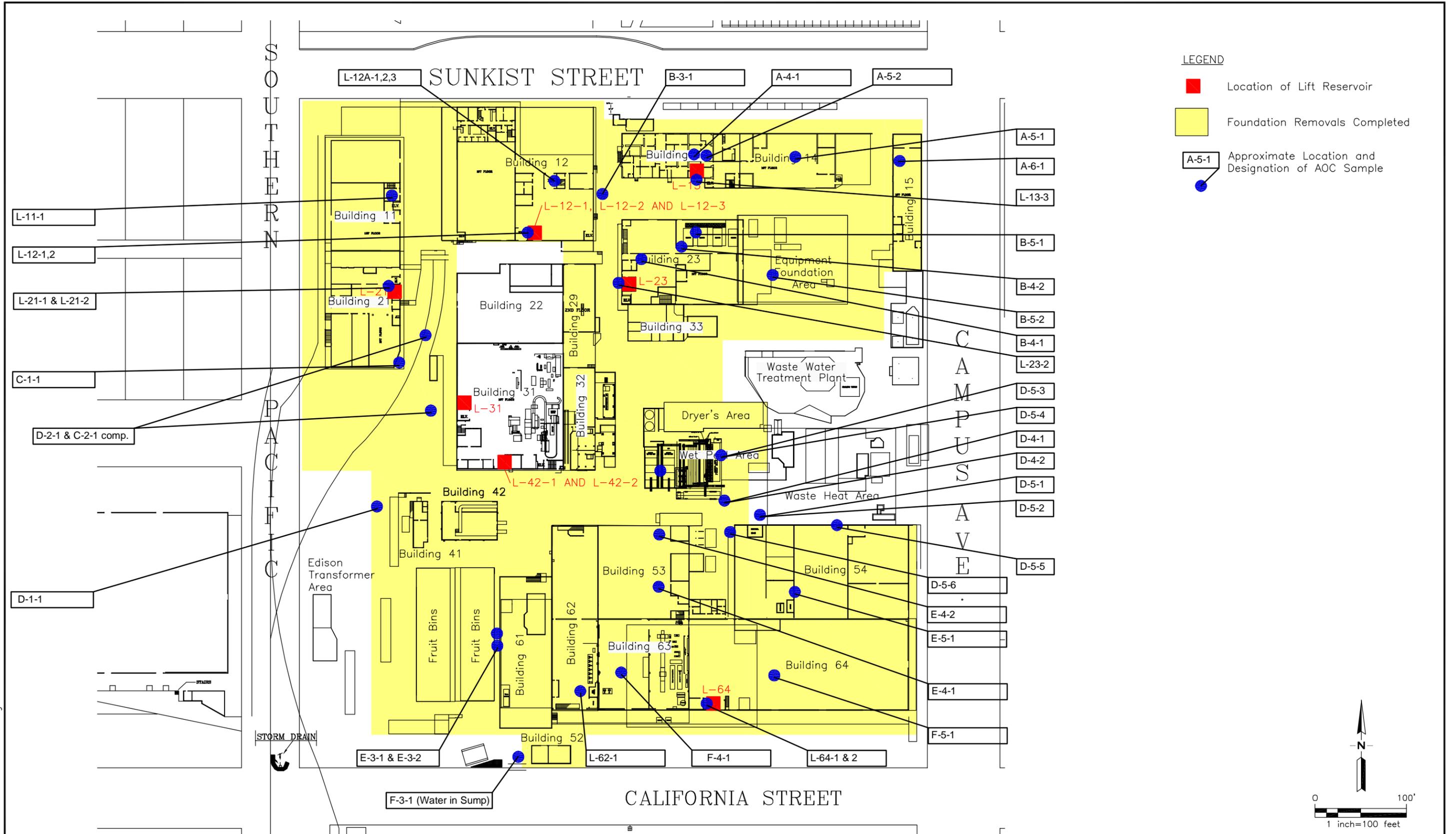
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OPERATIONAL AREAS
 SUNKIST CITRUS PROCESSING PLANT
 616 East Sunkist Street, Ontario, California

Project No. 08010001	Figure 2
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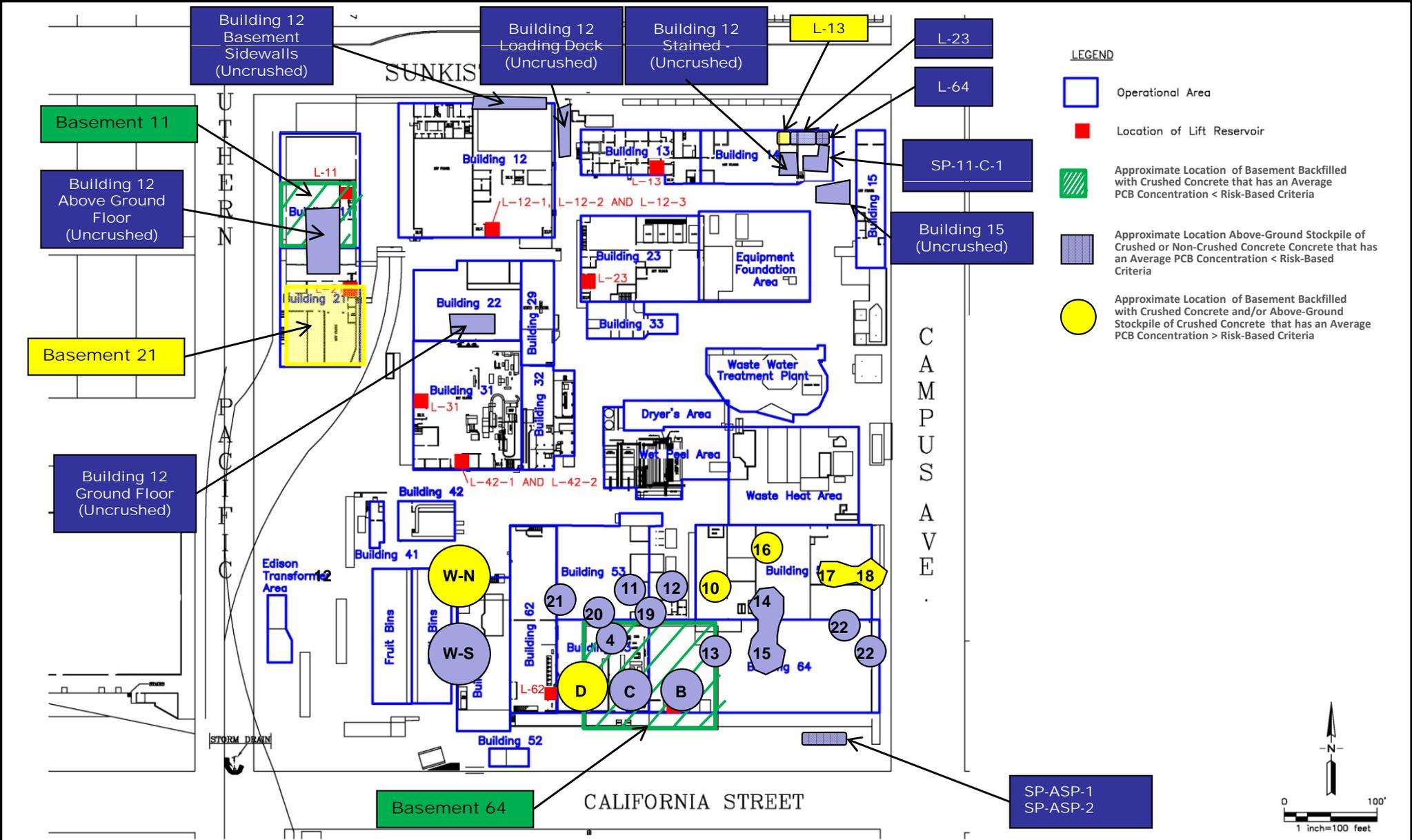


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AREA OF CONCERN AND LIFT SAMPLING LOCATIONS DURING DEMOLITION

SUNKIST CITRUS PROCESSING PLANT
 616 East Sunkist Street, Ontario, California

Project No. 08010007	Figure H
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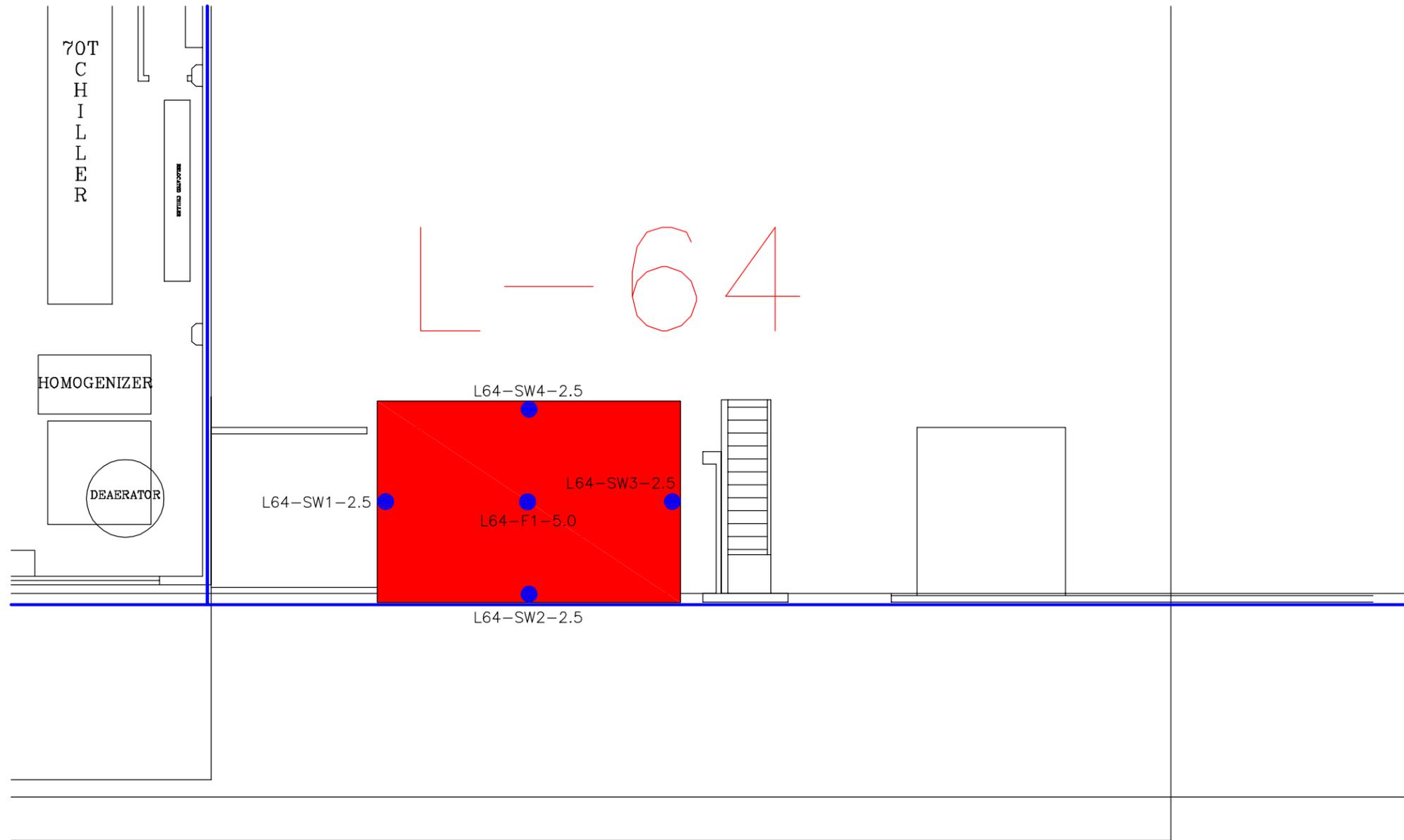
- LEGEND**
- Operational Area
 - Location of Lift Reservoir
 - Approximate Location of Basement Backfilled with Crushed Concrete that has an Average PCB Concentration < Risk-Based Criteria
 - Approximate Location Above-Ground Stockpile of Crushed or Non-Crushed Concrete that has an Average PCB Concentration < Risk-Based Criteria
 - Approximate Location of Basement Backfilled with Crushed Concrete and/or Above-Ground Stockpile of Crushed Concrete that has an Average PCB Concentration > Risk-Based Criteria

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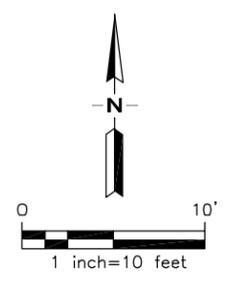
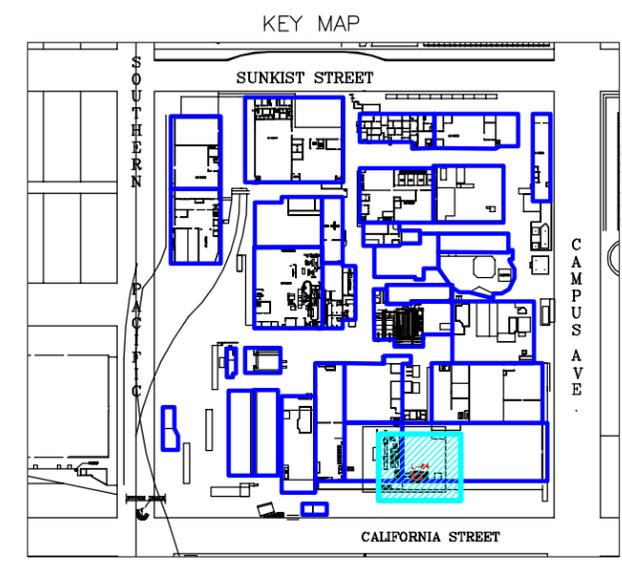
LOCATION OF BACKFILLED BASEMENTS AND STOCKPILES
 SUNKIST CITRUS PROCESSING PLANT
 616 EAST SUNKIST STREET, ONTARIO, CALIFORNIA

Project No. 08010003
 Figure 4

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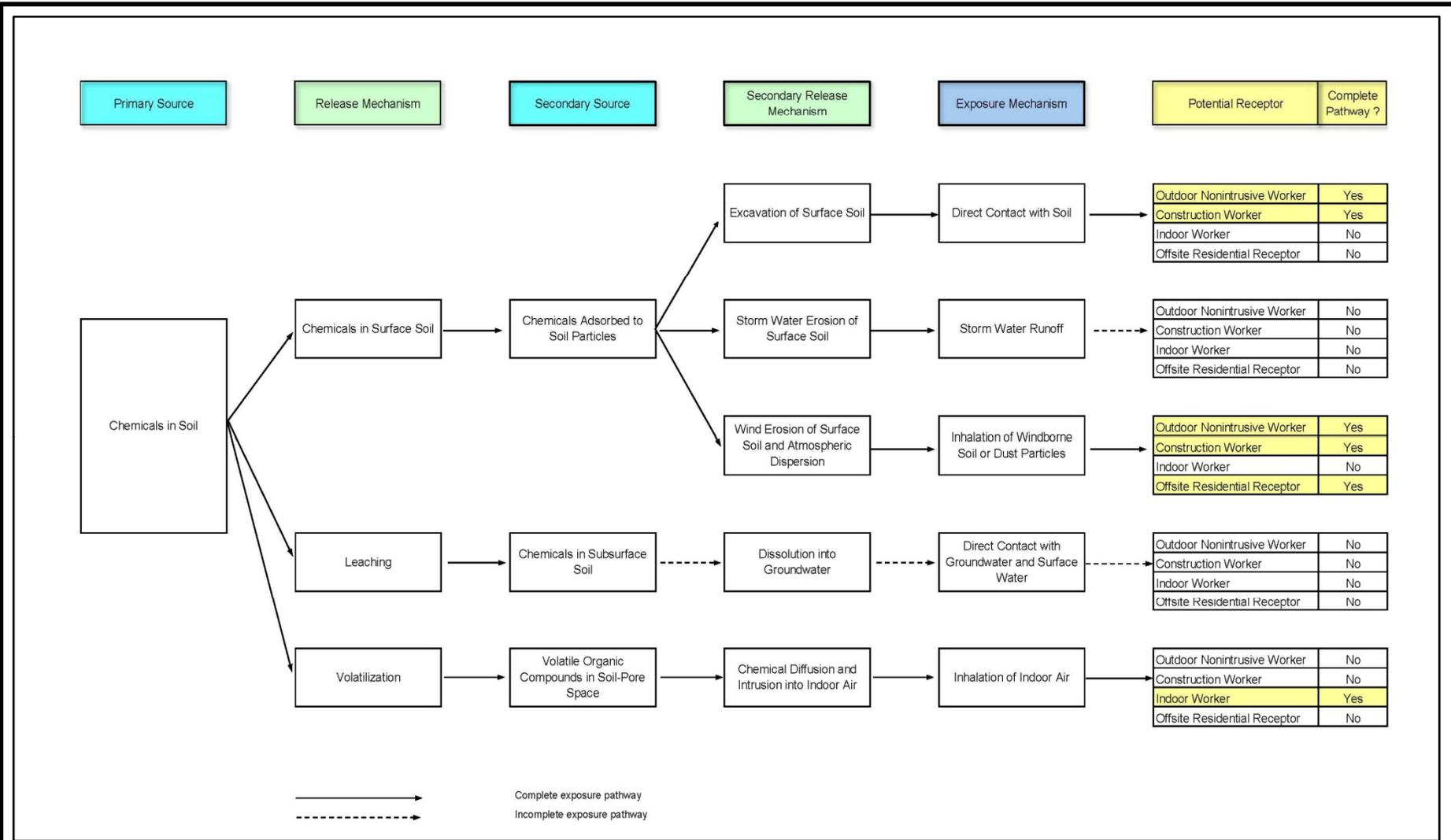
- LEGEND
- Operational Area
 - Soil Excavation Area
 - Soil Sampling Location



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**SOIL SAMPLING LOCATIONS REMOVAL
 ACTION AT L-64**
 SUNKIST CITRUS PROCESSING PLANT
 616 East Sunkist Street, Ontario, California

Project No. 08010004	Figure 5
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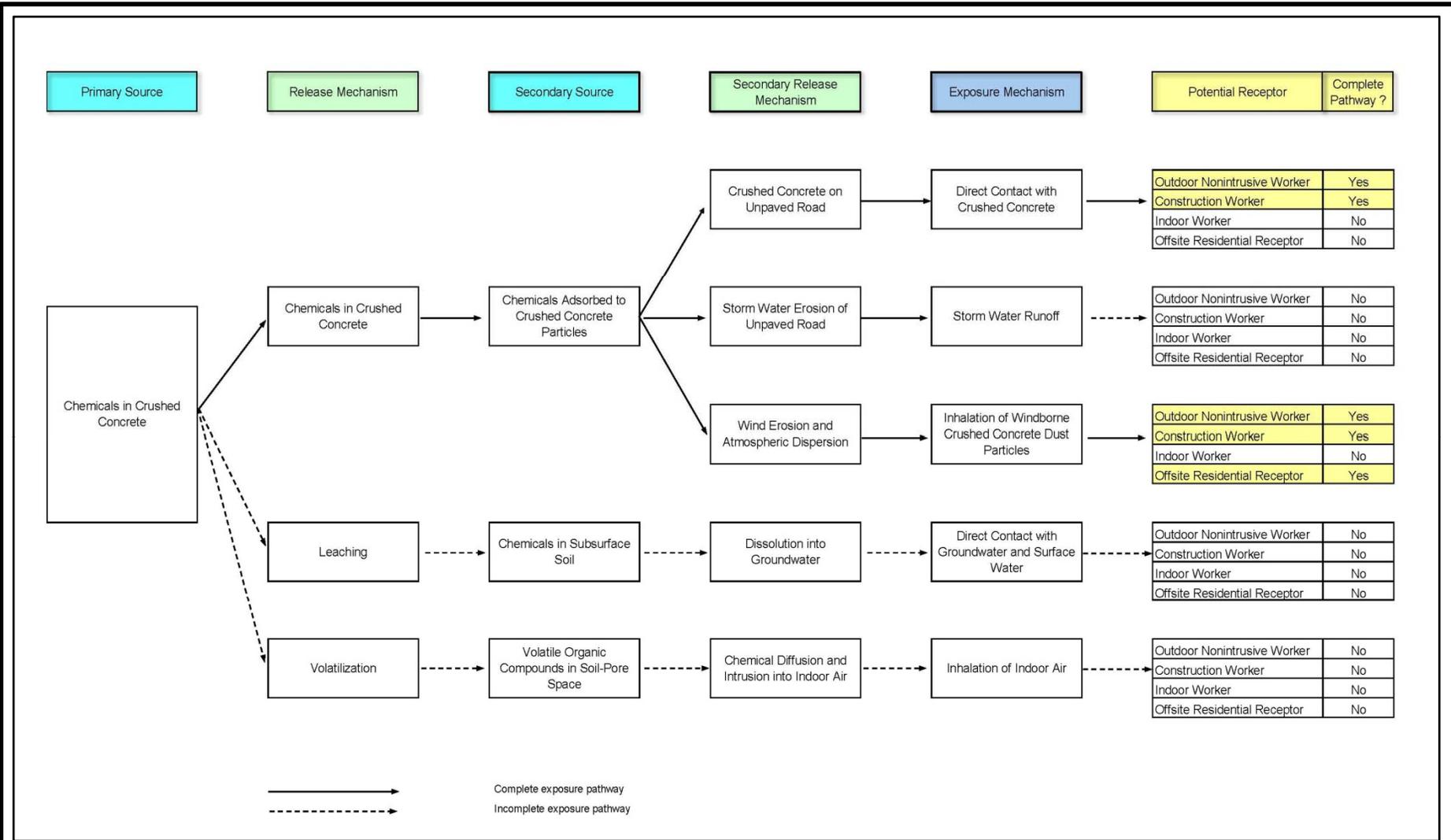



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Conceptual Site Model for Chemicals in Soil
 Former Sunkist Citrus Processing Plant
 616 East Sunkist Street
 Ontario, California.

Project No.
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Figure No.
6




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Conceptual Site Model for Chemicals in Soil
 Former Sunkist Citrus Processing Plant
 616 East Sunkist Street
 Ontario, California

Project No.
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Figure No.
7

Tables

TABLE 2-1
Area of Concern Description
Sunkist - Former Citrus Processing Plant
Ontario, CA

AOC and/or Lift	Sampling Date	Field Description of AOC	Dimensions (East-West, North-South in Feet)
A-4-1	7/26/2010	Red, orange, gray and yellow soil.	8 x 33
A-5-1	7/26/2010	White, light-weight, soft material - Appears to be in layers.	64 x 27
A-5-2	7/27/2010	Circular brick structure (approximately 4.0 feet deep) with multiple subgrade lines.	3 x 3
B-5-1	7/28/2010	Reddish colored soil with elevated PID measurements.	52 x 16
L-13-3	7/29/2010	Dark stained material beneath former concrete associated with lift (L-13).	5 x 5
B-5-2	8/4/2010	Native soil appearance with elevated PID measurements.	15 x 11
B-4-1	8/5/2010	Scattered red, yellow and orange bricks.	82 x 23
B-4-2	8/5/2010	Black stained material.	13 x 15
E-4-1	8/13/2010	Yellow stained soil associated with a pipe.	6 x 5
E-4-2	8/16/2010	Black stained soil with elevated PID measurements.	7 x 6
L-23	8/19/2010	Dark stained material beneath former concrete associated with lift (L-23).	2 x 2
F-5-1	8/19/2010	Mixture of native soil, fill material and an unknown material. Located underneath a pipe and has elevated PID measurements.	8 x 53
E-5-1	8/20/2010	Native soil with elevated PID measurements.	25 x 45
D-5-1	8/24/2010	Native soil above a pipe associated with the waste water treatment plant.	3 x 3
D-5-2	8/24/2010	Native soil under a pipe associated with the waste water treatment plant.	3 x 3

TABLE 2-1
Area of Concern Description
Sunkist - Former Citrus Processing Plant
Ontario, CA

AOC and/or Lift	Sampling Date	Field Description of AOC	Dimensions (East-West, North-South in Feet)
D-5-3	8/24/2010	Native soil above a pipe associated with the waster water treatment plant.	32 x 28
D-5-4	8/24/2010	Black and red stained sediment under a pipe associated with the waste water treatment plant.	32 x 28
D-4-1	8/24/2010	Native soil above a pipe associated with the waster water treatment plant.	3 x 3
D-4-2	8/24/2010	Native soil under a pipe associated with the waste water treatment plant.	3 x 3
F-4-1	8/24/2010	Green material on sidewall of Basement 64.	8 x 24
D-5-5	8/25/2010	Dark brown/gray stained sediment with elevated PID measurements.	11 x 20
D-5-6	8/31/2010	Dark gray stained sediment with elevated PID measurements.	10 x 10
C-1-1	9/2/2010	Dark gray stained sediment with elevated PID measurements.	7 x 7
L-64	9/2/2010	Soil beneath former concrete associated with lift (L-64).	7 x 6
L-21	9/8/2010	Soil beneath former concrete associated with lift (L-21).	20 x 15
L-11	9/10/2010	Dark stained material beneath former concrete associated with lift (L-11).	14 x 15
D-1-1	9/23/2010	Dark gray stained sediment beneath former weigh station.	79 x 20
D-2 & C-2	9/29/2010	Gray ballast under former tracks.	200 x 30
E-3	10/11/2010	Soil under liquid 30 gallons released from underground line break during demolition.	13 x 5
L-62	10/26/2010	Soil beneath former concrete associated with lift (L-62).	7 x 6

TABLE 2-1
Area of Concern Description
Sunkist - Former Citrus Processing Plant
Ontario, CA

AOC and/or Lift	Sampling Date	Field Description of AOC	Dimensions (East-West, North-South in Feet)
A-6-1	12/13/2010	Light orange stained soil with elevated PID measurements.	23 x 24
B-3-1	12/15/2010	Gray green stained soil along eastern side of B12.	10 x 15
L12	12/15/2010	Soil beneath former concrete associated with lift (L-12)	20 x 15
L-12A-1	12/15/2010	Soil beneath former concrete associated with lift (L-12A)	20 x 15

TABLE 2-2
Stockpile and Basement Fill Description
Sunkist - Former Citrus Processing Plant
Ontario, CA

Name	Type	Media	Representative Samples	Sample Date	Source	Approximate Size (Cubic Yards)
ASP-1	Above-Ground Stockpile	Asphalt	SP-ASP-1	8/9/2010	Asphalt from equipment foundation area.	34
ASP-2	Above-Ground Stockpile	Asphalt	SP-ASP-2	8/9/2010	Asphalt from equipment foundation area and building 23.	19
SP-11-C-1	Above-Ground Stockpile	Soil	SP-11-C-1-1	8/18/2010	East of 11-C in Wet Peal Area.	43
L-13	Above-Ground Stockpile	Soil	L-13-3	7/29/2010	Soil from beneath Lift 13	15
L-23	Above-Ground Stockpile	Soil	L-23-2	8/19/2010	Soil from beneath Lift 23	30
L-64	Above-Ground Stockpile	Soil	L-64 1&2 (Comp.)	9/2/2010	Soil from beneath Lift 64	15
Building 12 Stained	Above-Ground Stockpile	Concrete (Uncrushed)	B-12-U and B-12-V	10/27/2010 and 11/3/2010	Building 12 - Stained Area on Southeastern Side	40
Building 15 (Uncrushed)	Above-Ground Stockpile	Concrete (Uncrushed)	B-15	12/30/2010	Building 15	400
Building 12 - Ground Floor (Uncrushed)	Above-Ground Stockpile	Concrete (Uncrushed)	FI1-B12	12/30/2010	Building 12 - Ground Floor	150
Building 12 - Loading Dock (Uncrushed)	Above-Ground Stockpile	Concrete (Uncrushed)	LD-L1	12/30/2010	Building 12 - Loading Dock	100
Building 12 - Above Ground Floor (Uncrushed)	Above-Ground Stockpile	Concrete (Uncrushed)	AGB-12	12/30/2010	Building 12 - Above Ground Floor	1000
Building 12 - Basement Sidewalls (Uncrushed)	Above-Ground Stockpile	Concrete (Uncrushed)	BSW-B12	12/30/2010	Building 12 - Basement Sidewalls	150
Basement 11	Fill in Basement	Concrete (Crushed)	SPC-CC-13, 14, 15, 20, 21, and 23	9/25/2010 through 10/2/2010	Demolished Structures	80 by 75, 7.0 deep (1,555 cys)
Basement 21	Fill in Basement	Concrete (Crushed)	SPC-CC-15, 16, 17, 19, 22, 24, 25 and 26	9/28/2010 through 10/5/2010	Demolished Structures	80 by 95, 6.5 deep (1,830 cys)
Basement 64	Fill in Basement	Concrete (Crushed)	SPC-CC-1 through SPC-CC-12	9/3/2010 through 9/24/2010	Demolished Structures	145 by 115, 12 deep (7,410 cys)
Western North (W-N)	Above-Ground Stockpile	Concrete (Crushed)	SPC-CC-27 and 29	10/06/2010 through 10/8/2010	Demolished Structures	3200
Western South (W-S)	Above-Ground Stockpile	Concrete (Crushed)	SPC-CC-28 and 30	10/06/2010 through 10/8/2010	Demolished Structures	3,200

TABLE 2-2
Stockpile and Basement Fill Description
Sunkist - Former Citrus Processing Plant
Ontario, CA

Name	Type	Media	Representative Samples	Sample Date	Source	Approximate Size (Cubic Yards)
B	Above-Ground Stockpile	Concrete (Crushed)	SPC-CC-33, 35 and 36	10/12/2010 and 10/13/2010	Demolished Structures	1,280
C	Above-Ground Stockpile	Concrete (Crushed)	SPC-CC-37 and 38	10/13/2010 and 10/14/2010	Demolished Structures	1,280
D	Above-Ground Stockpile	Concrete (Crushed)	SPC-CC-31, 32, and 39	10/9/2010, 10/11/2010 and 10/15/2010	Demolished Structures	1,920
4	Above-Ground Stockpile	Concrete (Crushed)	SPC-CC-34	10/12/2010	Demolished Structures	640
10	Above-Ground Stockpile	Concrete (Crushed)	SPC-CC-40	10/19/2010	Demolished Structures	640
11	Above-Ground Stockpile	Concrete (Crushed)	SPC-CC-41	10/19/2010	Demolished Structures	640
12	Above-Ground Stockpile	Concrete (Crushed)	SPC-CC-42	10/19/2010	Demolished Structures	640
13	Above-Ground Stockpile	Concrete (Crushed)	SPC-CC-43	10/22/2010	Demolished Structures	640
14	Above-Ground Stockpile	Concrete (Crushed)	SPC-CC-44	10/25/2010	Demolished Structures	640
15	Above-Ground Stockpile	Concrete (Crushed)	SPC-CC-45	10/25/2010	Demolished Structures	640
16	Above-Ground Stockpile	Concrete (Crushed)	SPC-CC-46	10/26/2010	Demolished Structures	640
17	Above-Ground Stockpile	Concrete (Crushed)	SPC-CC-47	10/27/2010	Demolished Structures	640
18	Above-Ground Stockpile	Concrete (Crushed)	SPC-CC-48	10/28/2010	Demolished Structures	640
19	Above-Ground Stockpile	Concrete (Crushed)	SPC-CC-49	10/29/2010	Demolished Structures	640
20	Above-Ground Stockpile	Concrete (Crushed)	SPC-CC-50	10/30/2010	Demolished Structures	640
21	Above-Ground Stockpile	Concrete (Crushed)	SPC-CC-51	11/2/2010	Demolished Structures	640
22	Above-Ground Stockpile	Concrete (Crushed)	NA	NA	Demolished Structures	1,280

TABLE 2-3
Volatile Organic Compounds in Soil at Areas of Concern
Sunkist - Former Citrus Processing Plant
Ontario, CA

Sample Identification	Sample Date	Sample Depth (feet bgs) or Stockpile Description							
			Trichloroethene	Tetrachloroethene	n-Butylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	tert-Butylbenzene	Naphthalene
In Situ Samples from Areas of Concern									
A-4-1	7/26/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
A-5-1	7/26/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
A-5-2	7/27/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B-5-1	7/28/2010	surface	<0.005	<0.005	2.04	4.12	2.15	7.36	<0.005
L-13-3	7/29/2010	4.75	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.007
B-5-2	8/4/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B-4-1	8/5/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B-4-2	8/5/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
E-4-1	8/13/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
E-4-2	8/16/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
L-23-2	8/19/2010	6.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
F-5-1	8/19/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
E-5-1	8/20/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
D-5-1	8/24/2010	1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
D-5-2	8/24/2010	5.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
D-5-3	8/24/2010	1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
D-5-4	8/24/2010	6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
D-4-1	8/24/2010	1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
D-4-2	8/24/2010	6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
F-4-1	8/24/2010	4	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
D-5-5	8/25/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
D-5-6	8/31/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
C-1-1	9/2/2010	7	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
L-64-1&2 (comp)	9/2/2010	17	NA	NA	NA	NA	NA	NA	NA
L-21-1	9/8/2010	14	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
L-21- 2	9/8/2010	14	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
L-11-1&3 (comp)	9/10/2010	11.5	NA	NA	NA	NA	NA	NA	NA
L-11-2	9/10/2010	11.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
D-1-1	9/23/2010	5	<0.005	<0.005	0.086	0.158	<0.005	<0.005	0.393
D-2-1 & C-2-1 Comp	9/29/2010	0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
E-3-1	10/11/2010	0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
E-3-2	10/11/2010	0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
L-62-2	10/26/2010	6.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
L-62-1	10/26/2010	6.5	NA	NA	NA	NA	NA	NA	NA

TABLE 2-3
Volatile Organic Compounds in Soil at Areas of Concern
Sunkist - Former Citrus Processing Plant
Ontario, CA

Sample Identification	Sample Date	Sample Depth (feet bgs) or Stockpile Description							
			Trichloroethene	Tetrachloroethene	n-Butylbenzene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	tert-Butylbenzene	Naphthalene
L-62-3	10/26/2010	6.5	NA	NA	NA	NA	NA	NA	NA
A-6-1	12/13/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B-3-1	12/15/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
L-12A-1	12/15/2010	0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Screening Criteria							
CHHSL Commercial/Industrial	-	-	-	-	-	-	-
Regional Screening Levels - Industrial	14	2.6	-	260	10000	-	18

Notes:

- Results given in milligrams per kilogram (mg/kg).
- < = Not detected at or above the listed reporting limit.
- Bold** = Values > Screening Criteria.
- bgs = below ground surface
- NA = Not analyzed
- CHHSL = California Human Health Screening Levels
- Regional Screening Levels = USEPA Screening Criteria (May 2010)

TABLE 2-4
Total Petroleum Hydrocarbons in Soil at Areas of Concern
Sunkist - Former Citrus Processing Plant
Ontario, CA

Sample Identification	Sample Date	Sample Depth (feet bgs) or Stockpile Description	Gasoline Range Organics ¹	Diesel Range Organics ²	Other Range Organics ³
In Situ Samples from Areas of Concern					
A-4-1	7/26/2010	surface	<0.1	18.5	<50
A-5-1	7/26/2010	surface	<0.1	<10	<50
A-5-2	7/27/2010	surface	<0.1	<10	<50
B-5-1	7/28/2010	surface	671^J	17,100	<50
L-13-3	7/29/2010	4.75	<0.1	14,800	398
B-5-2	8/4/2010	surface	38.4	728	<50
B-4-1	8/5/2010	surface	<0.1	<10	<50
B-4-2	8/5/2010	surface	<0.1	478	<50
E-4-1	8/13/2010	surface	<0.1	<10	<50
E-4-2	8/16/2010	surface	7.92	<10	<50
L-23-2	8/19/2010	6.5	<0.1	9,660	456
F-5-1	8/19/2010	surface	537	7,330	574
E-5-1	8/20/2010	surface	3,320	70.7	<50
D-5-1	8/24/2010	1	<0.1	15.5	<50
D-5-2	8/24/2010	5.5	438	1,870	459
D-5-3	8/24/2010	1	<0.1	<10	<50
D-5-4	8/24/2010	6	<0.1	67.5	<50
D-4-1	8/24/2010	1	<0.1	<10	<50
D-4-2	8/24/2010	6	<0.1	<10	<50
F-4-1	8/24/2010	4	<0.1	<10	<50
D-5-5	8/25/2010	surface	3.25	<10	<50
D-5-6	8/31/2010	surface	25	27.2	<50
C-1-1	9/2/2010	7	443	44.5	<50
L-64-1&2 (comp)	9/2/2010	17	NA	NA	NA
L-21-1	9/8/2010	14	<0.1	<10	<50
L-21-2	9/8/2010	14	<0.1	<10	<50
L-11-1&3(comp)	9/10/2010	11.5	<0.1	171.0	<50
L-11-2	9/10/2010	11.5	<0.1	179.0	<50
D-1-1	9/23/2010	5	12.4	13,600	<50
D-2-1 & C-2-1 Comp	9/29/2010	0.5	<0.1	<10	<50
E-3-1	10/11/2010	0.5	<0.1	<10	<50
E-3-2	10/11/2010	0.5	<0.1	<10	<50
L-62-2	10/26/2010	6.5	<0.1	10.9	<50
L-62-1	10/26/2010	6.5	<0.1	122.0	118.0
L-62-3	10/26/2010	6.5	<0.1	825.0	245.0
A-6-1	12/13/2010	surface	<0.1	<10	<50
B-3-1	12/15/2010	surface	<0.1	<10	<50
L-12A-1	12/15/2010	0.5	<0.1	817	286.0
L-12A-2	12/15/2010	1	<0.1	108	<50
L-12A-3	12/15/2010	1	<0.1	<10	<50
L-12-1	12/15/2010	1	<0.1	216	54
L-12-2	12/15/2010	1	<0.1	<10	<50

Notes: Results given in milligrams per kilogram (mg/kg).

< = Not detected at or above the listed reporting limit.

bgs = below ground surface

NA = Not analyzed

1. Gasoline Range Organics = C4-C12 Hydrocarbons

2. Diesel Range Organics = Sum of C8-C10, C10-C18, C18-C28, and C28-C36 Hydrocarbons

3. Other Range Organics = C36-C40 Hydrocarbons

J. The analyte was positively identified. The numerical value should be considered to be an approximate concentration, as the Laboratory Control Sample (LCS) and/or the Laboratory Control Sample Duplicate (LCSD) recoveries were not within the acceptable limits.

TABLE 2-5
Pesticides Detected in Soil at Areas of Concern
Sunkist - Former Citrus Processing Plant
Ontario, CA

Sample Identification	Sample Date	Sample Depth (feet bgs) or Stockpile Description	4,4'-DDD	4,4'-DDE	4,4'-DDT	alpha-BHC	beta-BHC	gamma-BHC (lindane)	delta-BHC	Endosulfan I	Endosulfan II	Toxaphene	alpha-Chlordane	Dieldrin	gamma-Chlordane	Endrin Ketone
In Situ Samples from Areas of Concern																
A-4-1	7/26/2010	surface	<0.005	0.00763	0.0175	<0.005	<0.005	<0.005	0.0137	<0.005	<0.005	<0.1	<0.005	<0.005	<0.005	<0.01
A-5-1	7/26/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005	<0.005	<0.01
A-5-2	7/27/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005	<0.005	<0.01
B-5-1	7/28/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005	<0.005	<0.01
L-13-3	7/29/2010	4.75	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005	<0.005	<0.01
B-5-2	8/4/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005	<0.005	<0.01
B-4-1	8/5/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005	<0.005	<0.01
B-4-2	8/5/2010	surface	0.0179	0.0849	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	0.00972	<0.005	<0.005	<0.01
E-4-1	8/13/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	0.0136	<0.005	0.0316	<0.01
E-4-2	8/16/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005	0.0158	<0.01
L-23-2	8/19/2010	6.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005	<0.005	<0.01
F-5-1	8/19/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005	<0.005	<0.01
E-5-1	8/20/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005	<0.005	<0.01
D-5-1	8/24/2010	1	0.0318	0.256	0.2350	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005	<0.005	0.015
D-5-2	8/24/2010	5.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005	<0.005	<0.01
D-5-3	8/24/2010	1	<0.005	0.0199	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005	<0.005	<0.01
D-5-4	8/24/2010	6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005	<0.005	<0.01
D-4-1	8/24/2010	1	<0.005	0.016	0.0123	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005	<0.005	<0.01
D-4-2	8/24/2010	6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005	<0.005	<0.01
F-4-1	8/24/2010	4	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005	<0.005	<0.01
D-5-5	8/25/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005	<0.005	<0.01
D-5-6	8/31/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005	<0.005	<0.01
C-1-1	9/2/2010	7	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.1	<0.005	<0.005	<0.005	<0.01
L-64-1&2 (comp)	9/2/2010	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L-21-1	9/8/2010	14	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
L-21- 2	9/8/2010	14	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
L-11-1&3 (comp)	9/10/2010	11.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L-11-2	9/10/2010	11.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
D-1-1	9/23/2010	5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
D-2-1 & C-2-1 Comp	9/29/2010	0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
E-3-1	10/11/2010	0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
E-3-2	10/11/2010	0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
L-62-2	10/26/2010	6.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
L-62-1	10/26/2010	6.5	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
L-62-3	10/26/2010	6.5	NA	NA	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
A-6-1	12/13/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
B-3-1	12/15/2010	surface	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
L-12A-1	12/15/2010	0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Screening Criteria																
CHHSL Commercial/Industrial	9.00	6.30	6.30	-	-	2	-	-	-	1.8	-	0.13	-	-	-	-
Regional Screening Levels - Industrial	7.20	5.10	7.00	0.27	0.96	2.1	-	3700.00	3700.00	1.6	-	0.11	-	-	-	-

Notes:
All numbers given in mg/kg = milligrams per kilograms.
< = Not detected at or above the listed reporting limit.
4,4-DDD = 4,4-Dichlorodiphenyldichloroethane
4,4-DDE = 4,4-Dichlorodiphenyltrichloroethane
4,4-DDT = 4,4-Dichlorodiphenyldichloroethylene
BHC = Benzene hexachloride
bgs = below ground surface
NA = Not analyzed
CHHSL = California Human Health Screening Levels
Regional Screening Levels = USEPA Screening Criteria (May 2010)
Bold = > Screening Criteria

TABLE 2-6
PCBs in Soil at Areas of Concern
Sunkist - Former Citrus Processing Plant
Ontario, CA

Sample Identification	Sample Date	Sample Depth (feet bgs) or Stockpile Description							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
In Situ Samples from Areas of Concern									
A-4-1	7/26/2010	surface	<0.025	<0.050	<0.025	<0.025	<0.025	2.02	<0.025
A-5-1	7/26/2010	surface	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
A-5-2	7/27/2010	surface	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
B-5-1	7/28/2010	surface	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
L-13-3	7/29/2010	4.75	<0.025	<0.050	<0.025	<0.025	<0.025	2.37	<0.025
B-5-2	8/4/2010	surface	<0.025	<0.050	<0.025	<0.025	<0.025	0.186	<0.025
B-4-1	8/5/2010	surface	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
B-4-2	8/5/2010	surface	<0.025	<0.050	<0.025	<0.025	<0.025	0.975	<0.025
E-4-1	8/13/2010	surface	<0.025	<0.050	<0.025	<0.025	<0.025	0.529	<0.025
E-4-2	8/16/2010	surface	<0.025	<0.050	<0.025	<0.025	<0.025	0.326	<0.025
L-23-2	8/19/2010	6.5	<0.025	<0.050	<0.025	<0.025	<0.025	0.175	<0.025
F-5-1	8/19/2010	surface	<0.025	<0.050	<0.025	<0.025	<0.025	0.075	<0.025
E-5-1	8/20/2010	surface	<0.025	<0.050	<0.025	<0.025	<0.025	0.180	<0.025
D-5-1	8/24/2010	1	<0.025	<0.050	<0.025	<0.025	<0.025	0.372	<0.025
D-5-2	8/24/2010	5.5	<0.025	<0.050	<0.025	<0.025	<0.025	0.25	<0.025
D-5-3	8/24/2010	1	<0.025	<0.050	<0.025	<0.025	<0.025	0.0631	<0.025
D-5-4	8/24/2010	6	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
D-4-1	8/24/2010	1	<0.025	<0.050	<0.025	<0.025	<0.025	0.0435	<0.025
D-4-2	8/24/2010	6	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
F-4-1	8/24/2010	4	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
D-5-5	8/25/2010	surface	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
D-5-6	8/31/2010	surface	<0.025	<0.050	<0.025	<0.025	<0.025	0.430	<0.025
C-1-1	9/2/2010	7	<0.025	<0.050	<0.025	<0.025	<0.025	0.0599	<0.025
L-64-1&2 (comp)	9/2/2010	17	<0.025	<0.050	<0.025	<0.025	<0.025	0.540	<0.025
L-21-1	9/8/2010	14	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
L-21- 2	9/8/2010	14	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
L-11-1&3 (comp)	9/10/2010	11.5	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025

TABLE 2-6
PCBs in Soil at Areas of Concern
Sunkist - Former Citrus Processing Plant
Ontario, CA

Sample Identification	Sample Date	Sample Depth (feet bgs) or Stockpile Description							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
L-11-2	9/10/2010	11.5	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
D-1-1	9/23/2010	5	<0.025	<0.050	<0.025	<0.025	<0.025	0.207	<0.025
D-2-1 & C-2-1 Comp	9/29/2010	0.5	<0.025	<0.050	<0.025	<0.025	<0.025	0.0615	<0.025
E-3-1	10/11/2010	0.5	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
E-3-2	10/11/2010	0.5	<0.025	<0.050	<0.025	<0.025	<0.025	0.0655	<0.025
L-62-2	10/26/2010	6.5	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
L-62-1	10/26/2010	6.5	<0.025	<0.050	<0.025	<0.025	<0.025	0.294	<0.025
L-62-3	10/26/2010	6.5	<0.025	<0.050	<0.025	<0.025	<0.025	0.0531	<0.025
A-6-1	12/13/2010	surface	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
B-3-1	12/15/2010	surface	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
L-12A-1	12/15/2010	0.5	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
L-12A-2	12/15/2010	1	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
L-12A-3	12/15/2010	1	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
L-12-1	12/15/2010	1	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
L-12-2	12/15/2010	1	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
Screening Criteria									
CHHSL Commercial/Industrial			0.3	0.3	0.3	0.3	0.3	0.3	0.3
Regional Screening Levels - Industrial			21	0.54	0.54	0.74	0.74	0.74	0.74

Notes:

Results given in milligrams per kilogram (mg/kg).

< = Not detected at or above the listed reporting limit.

Bold = Values > Screening Criteria.

bgs = below ground surface

NA = Not analyzed

CHHSL = California Human Health Screening Levels

Regional Screening Levels = USEPA Screening Criteria (May 2010)

TABLE 2-7
Metals in Soil at Areas of Concern
Sunkist - Former Citrus Processing Plant
Ontario, CA

Sample Identification	Sample Date	Sample Depth (feet bgs) or Stockpile Description	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (total)	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
In Situ Samples from Areas of Concern																			
A-4-1	7/26/2010	surface	<10	1.20	33.40	<2.5	<2.5	7.15	2.50	22.5	6.25	<0.1	<5.0	3.54	<0.5	<2.5	<2.5	17.00	9.59
A-5-1	7/26/2010	surface	<10	<0.5	14.1	<2.5	<2.5	2.51	<2.5	9.14	4.8	<0.1	<5.0	<2.5	<0.5	<2.5	<2.5	<0.5	8.80
A-5-2	7/27/2010	surface	<10	1.21	38.80	<2.5	<2.5	13.70	4.10	13.4	3.53	<0.1	<5.0	8.81	<0.5	<2.5	<2.5	25.20	31.80
B-5-1	7/28/2010	surface	<10	4.39	67.4	<2.5	<2.5	36.8	8.87	68	68.4	<0.1	<5.0	18.0	<0.5	<2.5	<2.5	34.60	47.70
L-13-3	7/29/2010	4.75	<10	4.79	52.60	<2.5	<2.5	33.20	5.58	11.6	4.23	<0.1	<5.0	7.50	<0.5	<2.5	<2.5	35.50	247
B-5-2	8/4/2010	surface	<10	6.72	82.10	<2.5	<2.5	29.20	11.10	103	30.10	<0.1	<5.0	20.60	<0.5	<2.5	<2.5	38.40	163
B-4-1	8/5/2010	surface	<10	5.32	86.9	<2.5	<2.5	21.7	9.05	31.6	45.3	<0.1	<5.0	9.99	<0.5	<2.5	<2.5	41.90	103
B-4-2	8/5/2010	surface	<10	4.48	63.60	<2.5	<2.5	22.60	9.61	52.00	20.90	0.65	<5.0	10.90	<0.5	<2.5	<2.5	40.10	81.30
E-4-1	8/13/2010	surface	<10	6.79	81.70	<2.5	<2.5	575	5.95	21.70	7.33	<0.1	<5.0	8.11	<0.5	<2.5	<2.5	41	204
E-4-2	8/16/2010	surface	<10	6.47	59.60	<2.5	<2.5	37.5	6.61	19.80	7.53	<0.1	<5.0	9.17	<0.5	<2.5	<2.5	40.5	54.40
L-23-2	8/19/2010	6.5	<10	6.89	73.6	<2.5	<2.5	26.3	6.76	22.9	17.6	<0.1	<5.0	10.1	<0.5	<2.5	<2.5	38.1	80.9
F-5-1	8/19/2010	surface	<10	5.26	53.2	<2.5	<2.5	15.9	4.41	11.3	2.9	<0.1	<5.0	6.2	<0.5	<2.5	<2.5	27.6	81.9
E-5-1	8/20/2010	surface	<10	4.46	49.2	<2.5	<2.5	16.8	5.17	17.1	4.89	<0.1	<5.0	7.05	<0.5	<2.5	<2.5	26.3	36.7
D-5-1	8/24/2010	1	<10	8.32	52.8	<2.5	<2.5	21.30	8.47	13.9	4.13	<0.1	<5.0	9.31	<0.5	<2.5	<2.5	36.6	45.6
D-5-2	8/24/2010	5.5	<10	5.17	45.1	<2.5	<2.5	16.7	5.54	41.3	13.1	<0.1	<5.0	12.0	<0.5	<2.5	<2.5	20.4	158
D-5-3	8/24/2010	1	<10	11.5	77.7	<2.5	<2.5	28.4	12.2	21.5	5.62	<0.1	<5.0	14.4	<0.5	<2.5	<2.5	50.9	68.7
D-5-4	8/24/2010	6	<10	10.4	74.2	<2.5	<2.5	24.4	10.6	16.4	9.45	<0.1	<5.0	11.8	<0.5	<2.5	<2.5	45.1	57.7
D-4-1	8/24/2010	1	<10	11.9	84.7	<2.5	<2.5	28.1	11.9	18.1	3.54	<0.1	<5.0	12.4	<0.5	<2.5	<2.5	51	59.3
D-4-2	8/24/2010	6	<10	9.52	46.8	<2.5	<2.5	23.0	9.38	15.1	3.21	<0.1	<5.0	10.6	<0.5	<2.5	<2.5	40.0	49.4
F-4-1	8/24/2010	4	<10	8.78	56.6	<2.5	<2.5	23.7	8.19	14.6	3.12	<0.1	<5.0	9.24	<0.5	<2.5	<2.5	38.9	42.8
D-5-5	8/25/2010	surface	<10	9.45	66.8	<2.5	<2.5	21.8	10.6	18.8	3.14	<0.1	<5.0	11.4	<0.5	<2.5	<2.5	41.1	60.1
D-5-6	8/31/2010	surface	<10	6.06	63.1	<2.5	<2.5	27.8	6.47	14.0	2.80	<0.1	<5.0	8.40	<0.5	<2.5	<2.5	31.5	34.7
C-1-1	9/2/2010	7	<10	7.44	32.3	<2.5	<2.5	19.9	8.01	13.7	2.56	<0.1	<5.0	8.39	<0.5	<2.5	<2.5	30.3	33.2
L-64-1&2 (comp)	9/2/2010	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L-21-1	9/8/2010	14	<10	6.49	36.5	<2.5	<2.5	33.5	8.20	12.7	2.54	<0.1	<5.0	8.61	<0.5	<2.5	<2.5	40.3	37.1
L-21-2	9/8/2010	14	<10	6.26	36.4	<2.5	<2.5	29.1	7.91	11.2	2.86	<0.1	<5.0	8.77	<0.5	<2.5	<2.5	32.1	36.1
L-11-1&3 (comp)	9/10/2010	11.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L-11-2	9/10/2010	11.5	<10	5.46	48.7	<2.5	<2.5	31.4	8.8	13.7	4.40	<0.1	<5.0	9.7	<0.5	<2.5	<2.5	33.1	48.0
D-1-1	9/23/2010	5	<10	4.25	69.7	<2.5	<2.5	46.5	14.7	24.1	25.90	<0.1	<5.0	16.9	<0.5	<2.5	<2.5	50.1	110.0
D-2-1 & C-2-1 Comp	9/29/2010	0.5	<10	2.54	50.1	<2.5	<2.5	33.3	5.1	13.8	7.28	<0.1	<5.0	7.67	<0.5	<2.5	<2.5	25.8	42.9
E-3-1	10/11/2010	0.5	<10	2.91	54.9	<2.5	<2.5	20.7	4.79	7.52	4.62	<0.1	<5.0	4.52	<0.5	<2.5	<2.5	23.7	21.5
E-3-2	10/11/2010	0.5	<10	2.85	47.6	<2.5	<2.5	19.6	4.82	7.85	3.79	<0.1	<5.0	4.92	<0.5	<2.5	<2.5	28.8	27.2
L-62-2	10/26/2010	6.5	<10	2.19	23.4	<2.5	<2.5	23.1	4.89	8.36	2.99	<0.1	<5.0	6.32	<0.5	<2.5	<2.5	25.2	21.1
L-62-1	10/26/2010	6.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L-62-3	10/26/2010	6.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
A-6-1	12/13/2010	surface	<10	5.4	53.1	<2.5	<2.5	20.9	10.1	18.0	4.33	<0.1	<5.0	12.9	<0.5	<2.5	<2.5	53.2	39.3
B-3-1	12/15/2010	surface	<10	2.8	42.7	<2.5	<2.5	31.9	7.85	11.9	3.74	<0.1	<5.0	8.95	<0.5	<2.5	<2.5	31.9	58.8
L-12A-1	12/15/2010	0.5	<10	1.94	23.9	<2.5	<2.5	21.1	5.44	7.4	2.51	<0.1	<5.0	5.96	<0.5	<2.5	<2.5	22.1	64.0

TABLE 2-7
Metals in Soil at Areas of Concern
Sunkist - Former Citrus Processing Plant
Ontario, CA

Sample Identification	Sample Date	Sample Depth (feet bgs) or Stockpile Description	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (total)	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
			Screening Criteria																
CHHSL Commercial/Industrial			380	0.24	63,000	190	7.5	37*	3,200	38,000	320	180	4,800	16,000	4,800	4,800	63	6,700	100,000
Regional Screening Levels - Industrial			410	1.60	19,000	2,000	800	1,500,000**	300	41,000	800	310***	5,100	20,000	5,100	5,100	-	5,200	310,000
Total Threshold Limit Concentration (TTLIC)			500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
Soluble Threshold Limit Concentration (STLC) X 10			150	50	1,000	7.5	10	50	800	250	50	2	3,500	200	10	50	70	240	250

Notes:

- Results given in milligrams per kilogram (mg/kg), except for STLCs, which are shown in milligrams per liter (mg/l).
- Background level for arsenic in the greater Los Angeles area is 11.2 mg/kg.
- < = Not detected at or above the listed reporting limit.
- Bold** = Values > Screening Criteria.
- * = Assumes Chromium VI.
- ** = Assumes chromium III (insoluble salt).
- *** = Assumes mercury, Inorganic salts.
- bgs = below ground surface
- NA = Not analyzed
- CHHSL = California Human Health Screening Levels
- Regional Screening Levels = USEPA Screening Criteria (May 2010)

TABLE 2-8
Semivolatile Organic Compounds in Soil at Areas of Concern
Sunkist - Former Citrus Processing Plant
Ontario, CA

Sample Identification	Sample Date	Sample Depth (feet bgs) or Stockpile Description	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
In Situ Samples from Areas of Concern																		
A-4-1	7/26/2010	surface	<0.025	<0.025	0.04	0.12	0.072	0.128	<0.025	0.15	0.18	<0.025	0.24	<0.025	<0.025	0.04	0.16	0.44
A-5-1	7/26/2010	surface	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
A-5-2	7/27/2010	surface	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B-5-1	7/28/2010	surface	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
L-13-3	7/29/2010	4.75	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B-5-2	8/4/2010	surface	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B-4-1	8/5/2010	surface	<0.025	<0.025	<0.025	0.033	<0.025	<0.025	<0.025	<0.025	0.125	<0.025	0.048	<0.025	<0.025	<0.025	0.034	0.055
B-4-2	8/5/2010	surface	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
E-4-1	8/13/2010	surface	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
E-4-2	8/16/2010	surface	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
L-23-2	8/19/2010	6.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
F-5-1	8/19/2010	surface	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
E-5-1	8/20/2010	surface	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
D-5-1	8/24/2010	1	<0.025	<0.025	0.31	2.67	2.65	4.37	0.51	1.83	2.44	<0.025	4.18	<0.025	<0.025	<0.025	0.83	5.87
D-5-2	8/24/2010	5.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
D-5-3	8/24/2010	1	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
D-5-4	8/24/2010	6	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
D-4-1	8/24/2010	1	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
D-4-2	8/24/2010	6	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
F-4-1	8/24/2010	4	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
D-5-5	8/25/2010	surface	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
D-5-6	8/31/2010	surface	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
C-1-1	9/2/2010	7	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
L-64-1&2 (comp)	9/2/2010	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L-21-1	9/8/2010	14	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
L-21-2	9/8/2010	14	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
L-11-1&3 (comp)	9/10/2010	11.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L-11-2	9/10/2010	11.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
D-1-1	9/23/10	5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
D-2-1 & C-2-1 Comp	9/29/2010	0.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
E-3-1	10/11/2010	0.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
E-3-2	10/11/2010	0.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
L-62-2	10/26/2010	6.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
L-62-1	10/26/2010	6.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
L-62-3	10/26/2010	6.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
A-6-1	12/13/2010	surface	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B-3-1	12/15/2010	surface	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
L-12A-1	12/15/2010	0.5	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025

Screening Criteria

CHHSL Commercial/Industrial	-	-	-	-	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-
Regional Screening Levels - Industrial	33000	-	170,000	2.1	0.21	2.1	-	21	210	0.21	22,000	22,000	2.1	18	-	-	17,000	

Notes:

- Results given in milligrams per kilogram (mg/kg).
- < = Not detected at or above the listed reporting limit.
- Bold** = Values > Screening Criteria.
- bgs = below ground surface
- NA = Not analyzed
- CHHSL = California Human Health Screening Levels
- Regional Screening Levels = USEPA Screening Criteria (May 2010)

TABLE 2-9

***Soluble Lead and Hexavalent Chromium in Soil at Areas of Concern and in Stockpiled Materials
Sunkist - Former Citrus Processing Plant
Ontario, CA***

Sample Identification	Sample Date	Sample Depth (feet bgs)	WET Lead (mg/L)	TCLP (mg/L)	Hexavalent Chromium (mg/kg)

In Situ Samples from Areas of Concern

B-5-1	7/28/2010	surface	0.95	NA	NA
E-4-1	8/13/2010	surface	NA	NA	<0.1

Stockpile Samples

SP-ASP-1	8/9/2010	Asphalt	0.52	NA	NA
SP-ASP-2	8/9/2010	Asphalt	1.26	NA	NA
SP-11-C1-1	8/18/2010	Soil	3.86	NA	<0.1

Waste/Screening Criteria

Ten Times the STLC		5	-	-
RCRA Level		-	5	-
CHHSL Commercial/Industrial		NA	NA	37

Notes:

mg/L = milligrams per liter.

mg/kg = milligrams per kilogram.

< = Not detected at or above the listed reporting limit.

STLC = Soluble threshold limit Concentration (California hazardous waste screening criteria).

RCRA - Resource, Conservation and Recovery Act (Federal hazardous waste criteria).

Bold = Values > Screening Criteria.

NA = Not analyzed

Bold = > Screening Criteria

TABLE 2-10
PCBs in Soil at Removal Area L-64
Sunkist - Former Citrus Processing Plant
Ontario, CA

Sample Identification	Sample Date	Sample Depth (feet bgs)							
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
In Situ Samples from Areas of Concern									
L64-F1-5.0	9/20/2010		<0.025	<0.050	<0.025	<0.025	<0.025	0.0515	<0.025
L64-SW1-2.5	9/20/2010		<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
L64-SW2-2.5	9/20/2010		<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
L64-SW3-2.5	9/20/2010		<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
L64-SW4-2.5	9/20/2010		<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
Screening Criteria									
CHHSL Commercial/Industrial			0.3	0.3	0.3	0.3	0.3	0.3	0.3
Regional Screening Levels - Industrial			21	0.54	0.54	0.74	0.74	0.74	0.74

Notes:

Results given in milligrams per kilogram (mg/kg).

< = Not detected at or above the listed reporting limit.

Bold = Values > Screening Criteria.

bgs = below ground surface

NA = Not analyzed

CHHSL = California Human Health Screening Levels

Regional Screening Levels = USEPA Screening Criteria (May 2010)

TABLE 2-11
PCBs in Pre-Excavated Asphalt
Sunkist - Former Citrus Processing Plant
Ontario, CA

Sample Identification	Sample Date	Sample Depth (feet bgs)	Aroclor	Aroclor	Aroclor	Aroclor	Aroclor	Aroclor	Aroclor
			1016	1221	1232	1242	1248	1254	1260
SP-ASP-3	10/5/2010	Surface	<0.025	<0.050	<0.025	<0.025	<0.025	0.061	<0.025
SP-ASP-4	10/5/2010	Surface	<0.025	<0.050	<0.025	<0.025	<0.025	0.094	<0.025
SP-ASP-5	10/5/2010	Surface	<0.025	<0.050	<0.025	<0.025	<0.025	0.108	<0.025
SP-ASP-6	10/5/2010	Surface	<0.025	<0.050	<0.025	<0.025	<0.025	0.174	<0.025
SP-ASP-7	10/5/2010	Surface	<0.025	<0.050	<0.025	<0.025	<0.025	0.852	<0.025
SP-ASP-8	10/5/2010	Surface	<0.025	<0.050	<0.025	<0.025	<0.025	0.112	<0.025
SP-ASP-9	10/5/2010	Surface	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
SP-ASP-10	10/5/2010	Surface	<0.025	<0.050	<0.025	<0.025	<0.025	0.132	<0.025
SP-ASP-11	10/5/2010	Surface	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025
SP-ASP-12	10/5/2010	Surface	<0.025	<0.050	<0.025	<0.025	<0.025	0.17	<0.025
Screening Criteria									
CHHSL Commercial/Industrial			0.3	0.3	0.3	0.3	0.3	0.3	0.3
Regional Screening Levels - Industrial			21	0.54	0.54	0.74	0.74	0.74	0.74

Notes:

Results given in milligrams per kilogram (mg/kg).

< = Not detected at or above the listed reporting limit.

Bold = Values > Screening Criteria.

bgs = below ground surface

NA = Not analyzed

CHHSL = California Human Health Screening Levels

Regional Screening Levels = USEPA Screening Criteria (May 2010)

TABLE 2-12
PCBs in Basement Fill and Stockpiled Materials
Sunkist - Former Citrus Processing Plant
Ontario, CA

Sample Identification	Sample Date	Sample Depth (feet bgs) or Stockpile Description	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Placement
Stockpiled Soil										
SP-11-C-1-1	8/18/2010	Soil	<0.025	<0.050	<0.025	<0.025	<0.025	2.37	<0.025	SP-11-C-1
Stockpiled Asphalt										
SP-ASP-1	8/9/2010	Asphalt	<0.025	<0.050	<0.025	<0.025	<0.025	0.208	<0.025	SP-ASP-1
SP-ASP-2	8/9/2010	Asphalt	<0.025	<0.050	<0.025	<0.025	<0.025	0.570	<0.025	SP-Asp-2
Stockpile Concrete										
SPC-A-1	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.866	<0.025	NA
SPC-A-2	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.068	<0.025	NA
SPC-A-3	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025	NA
SPC-A-4	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025	NA
SPC-A-5	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.03	<0.025	NA
SPC-A-6	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.0406	<0.025	NA
SPC-A-7	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.155	<0.025	NA
SPC-A-8	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	1.11	<0.025	NA
SPC-A-9	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.0888	<0.025	NA
SPC-A-10	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025	NA
SPC-A-11	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.291	<0.025	NA
SPC-B-1	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.193	<0.025	NA
SPC-B-2	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025	NA
SPC-B-3	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025	NA
SPC-B-4	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.571	<0.025	NA
SPC-B-5	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025	NA
SPC-B-6	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.146	<0.025	NA
SPC-C-1	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.063	<0.025	NA
SPC-C-2	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025	NA
SPC-C-3	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025	NA
SPC-C-4	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025	NA
SPC-C-5	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025	NA
SPC-C-6	9/3/2010	Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.21	<0.025	NA

TABLE 2-12
PCBs in Basement Fill and Stockpiled Materials
Sunkist - Former Citrus Processing Plant
Ontario, CA

Sample Identification	Sample Date	Sample Depth (feet bgs) or Stockpile Description	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Placement
Stockpile Crushed Concrete										
SPC-CC-1	9/3/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.122	<0.025	Basement 64
SPC-CC-2	9/8/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	2.59	<0.025	Basement 64
SPC-CC-3	9/8/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.822	<0.025	Basement 64
SPC-CC-4	9/8/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	1.01	<0.025	Basement 64
SPC-CC-5	9/8/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.42	<0.025	Basement 64
SPC-CC-6	9/9/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.68	<0.025	Basement 64
SPC-CC-7	9/9/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.879	<0.025	Basement 64
SPC-CC-8	9/10/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	1.04	<0.025	Basement 64
SPC-CC-9	9/10/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.175	<0.025	Basement 64
SPC-CC-10	9/22/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.025	Basement 64
SPC-CC-11	9/23/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	3.020	<0.025	Basement 64
SPC-CC-12	9/24/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	2.250	<0.025	Basement 64
SPC-CC-13	9/25/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	2.000	<0.025	Basement 11
SPC-CC-14	9/27/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	1.330	<0.025	Basement 11
SPC-CC-15	9/28/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	5.410	<0.025	Basement 11 and 21
SPC-CC-16	9/28/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	27.200	<0.025	Basement 21
SPC-CC-17	9/29/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	4.540	<0.025	Basement 21
SPC-CC-18	9/30/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	4.790	<0.025	Basement 64
SPC-CC-19	9/30/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	1.960	<0.025	Basement 21
SPC-CC-20	10/1/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.992	<0.025	Basement 11
SPC-CC-21	10/1/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	3.670	<0.025	Basement 11
SPC-CC-22	10/2/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	4.030	<0.025	Basement 21
SPC-CC-23	10/2/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	2.510	<0.025	Basement 11
SPC-CC-24	10/4/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.341	<0.025	Basement 21
SPC-CC-25	10/5/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	1.260	<0.025	Basement 21
SPC-CC-26	10/5/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	1.870	<0.025	Basement 21
SPC-CC-27	10/6/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.389	<0.025	Western - North
SPC-CC-28	10/6/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.279	<0.025	Western - South
SPC-CC-29	10/8/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	16.10	<0.025	Western - North
SPC-CC-30	10/8/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.321	<0.025	Western - South
SPC-CC-31	10/9/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	8.050	<0.025	Eastern D
SPC-CC-32	10/11/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	5.990	<0.025	Eastern D

TABLE 2-12
PCBs in Basement Fill and Stockpiled Materials
Sunkist - Former Citrus Processing Plant
Ontario, CA

Sample Identification	Sample Date	Sample Depth (feet bgs) or Stockpile Description								Placement
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	
SPC-CC-33	10/12/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	1.980	<0.025	Eastern B
SPC-CC-34	10/12/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.738	<0.025	Eastern 4
SPC-CC-35	10/12/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	1.890	<0.025	Eastern B
SPC-CC-36	10/13/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	1.560	<0.025	Eastern B
SPC-CC-37	10/13/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	2.980	<0.025	Eastern C
SPC-CC-38	10/14/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	3.200	<0.025	Eastern C
SPC-CC-39	10/15/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	9.280	<0.025	Eastern D
SPC-CC-40	10/19/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	14.000	<0.025	Eastern Pile 10
SPC-CC-41	10/19/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.258	<0.025	Eastern Pile 11
SPC-CC-42	10/19/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.447	<0.025	Eastern Pile 12
SPC-CC-43	10/22/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	5.330	<0.025	Eastern Pile 13
SPC-CC-44	10/25/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	3.550	<0.025	Eastern Pile 14
SPC-CC-45	10/25/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	5.330	<0.025	Eastern Pile 15
SPC-CC-46	10/26/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	6.460	<0.025	Eastern Pile 16
SPC-CC-47	10/27/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	8.590	<0.025	Eastern Pile 17
SPC-CC-48	10/28/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	5.030	<0.025	Eastern Pile 18
SPC-CC-49	10/29/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.332	<0.025	Eastern Pile 19
SPC-CC-50	10/30/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.444	<0.025	Eastern Pile 20
SPC-CC-51	11/2/2010	Crushed Concrete	<0.025	<0.050	<0.025	<0.025	<0.025	0.274	<0.025	Eastern Pile 21

Screening Criteria

CHHSL Commercial/Industrial	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Regional Screening Levels - Industrial	21	0.54	0.54	0.74	0.74	0.74	0.74

Notes:

- Results given in milligrams per kilogram (mg/kg).
- < = Not detected at or above the listed reporting limit.
- Bold** = Values > Screening Criteria.
- bgs = below ground surface
- NA = Not analyzed
- CHHSL = California Human Health Screening Levels
- Regional Screening Levels = USEPA Screening Criteria (May 2010)

TABLE 2-13

**Total Petroleum Hydrocarbons in Basement Fill and Stockpiled Materials
Sunkist - Former Citrus Processing Plant
Ontario, CA**

Sample Identification	Sample Date	Sample Depth (feet bgs) or Stockpile Description	Gasoline Range Organics ¹	Diesel Range Organics ²	Other Range Organics ³
Stockpiled Soil					
SP-11-C-1-1	8/18/2010	Soil	<0.1	<10	<50
Stockpiled Asphalt					
SP-ASP-1	8/9/2010	Asphalt	<0.1	65.9	357
SP-ASP-2	8/9/2010	Asphalt	<0.1	92.1	401
Stockpiled Concrete					
SPC-A-1	9/3/2010	Concrete	<0.1	14.8	<50
SPC-A-2	9/3/2010	Concrete	<0.1	<10	<50
SPC-A-3	9/3/2010	Concrete	<0.1	<10	<50
SPC-A-4	9/3/2010	Concrete	<0.1	<10	<50
SPC-A-5	9/3/2010	Concrete	<0.1	<10	<50
SPC-A-6	9/3/2010	Concrete	<0.1	13.9	<50
SPC-A-7	9/3/2010	Concrete	<0.1	<10	<50
SPC-A-8	9/3/2010	Concrete	<0.1	<10	<50
SPC-A-9	9/3/2010	Concrete	<0.1	<10	<50
SPC-A-10	9/3/2010	Concrete	<0.1	<10	<50
SPC-A-11	9/3/2010	Concrete	<0.1	10.4	<50
SPC-B-1	9/3/2010	Concrete	<0.1	<10	<50
SPC-B-2	9/3/2010	Concrete	<0.1	<10	<50
SPC-B-3	9/3/2010	Concrete	<0.1	<10	<50
SPC-B-4	9/3/2010	Concrete	<0.1	16.3	<50
SPC-B-5	9/3/2010	Concrete	<0.1	13.4	<50
SPC-B-6	9/3/2010	Concrete	<0.1	<10	<50
SPC-C-1	9/3/2010	Concrete	<0.1	18.6	<50
SPC-C-2	9/3/2010	Concrete	<0.1	<10	<50
SPC-C-3	9/3/2010	Concrete	<0.1	<10	<50
SPC-C-4	9/3/2010	Concrete	<0.1	<10	<50
SPC-C-5	9/3/2010	Concrete	<0.1	<10	<50
SPC-C-6	9/3/2010	Concrete	<0.1	<10	<50
Stockpile Crushed Concrete					
SPC-CC-1	9/3/2010	Crushed Concrete	<0.1	14.4	<50

Notes:

- Results given in milligrams per kilogram (mg/kg).
- < = Not detected at or above the listed reporting limit.
- bgs = below ground surface
- NA = Not analyzed
- 1. Gasoline Range Organics = C4-C12 Hydrocarbons
- 2. Diesel Range Organics = Sum of C8-C10, C10-C18, C18-C28, and C28-C36 Hydrocarbons
- 3. Other Range Organics = C36-C40 Hydrocarbons

TABLE 2-14
Metals in Basement Fill and Stockpiled Materials
Sunkist - Former Citrus Processing Plant
Ontario, CA

Sample Identification	Sample Date	Sample Depth (feet bgs) or Stockpile Description	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium (total)	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Stockpiled Soil																			
SP-11-C-1-1	8/18/2010	Soil	<10	7.55	108	<2.5	<2.5	45.9	7.35	162	78.3	<0.1	<5.0	90	<0.5	<2.5	<2.5	47.5	125
Stockpiled Asphalt																			
SP-ASP-1	8/9/2010	Asphalt	<10	2.88	56.70	<2.5	<2.5	6.00	3.56	136.00	57.30	<0.1	<5.0	35.80	<0.5	<2.5	<2.5	13.40	46.10
SP-ASP-2	8/9/2010	Asphalt	<10	3.32	54.10	<2.5	<2.5	7.60	4.46	18.40	107.00	<0.1	<5.0	30.40	<0.5	<2.5	<2.5	17.60	89.90
Stockpiled Concrete																			
SPC-A-1	9/9/2010	Concrete	<10	7.20	74.20	<2.5	<2.5	19.10	3.90	11.90	9.51	<0.1	<0.5	4.36	<0.5	<2.5	<2.5	26.30	55.40
SPC-A-2	9/9/2010	Concrete	<10	8.23	67.40	<2.5	<2.5	20.60	6.39	17.20	4.26	<0.1	<0.5	10.50	<0.5	<2.5	<2.5	33.50	38.00
SPC-B-1	9/9/2010	Concrete	<10	3.56	45.70	<2.5	<2.5	6.48	2.33	5.62	2.72	<0.1	<0.5	2.99	<0.5	<2.5	<2.5	13.20	13.00
SPC-C-1	9/9/2010	Concrete	<10	7.64	92.50	<2.5	<2.5	18.10	5.36	14.60	4.99	<0.1	<0.5	10.80	<0.5	<2.5	<2.5	33.80	25.60
Stockpile Crushed Concrete																			
SPC-CC-1	9/9/2010	Crushed Concrete	<10	6.49	56.50	<2.5	<2.5	14.90	5.40	13.10	6.25	<0.1	<0.5	5.66	<0.5	<2.5	<2.5	25.30	30.50
Screening Criteria																			
CHHSL Commercial/Industrial			380	0.24	63,000	190	7.5	37*	3,200	38,000	320	180	4,800	16,000	4,800	4,800	63	6,700	100,000
Regional Screening Levels - Industrial			410	1.60	19,000	2,000	800	1,500,000**	300	41,000	800	310***	5,100	20,000	5,100	5,100	-	5,200	310,000
Total Threshold Limit Concentration (TTLC)			500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
Soluble Threshold Limit Concentration (STLC) X 10			150	50	1,000	7.5	10	50	800	250	50	2	3,500	200	10	50	70	240	250

Notes:

Results given in milligrams per kilogram (mg/kg), except for STLCs, which are shown in milligrams per liter (mg/l).

Background level for arsenic in the greater Los Angeles area is 11.2 mg/kg.

< = Not detected at or above the listed reporting limit.

Bold = Values > Screening Criteria.

* = Assumes Chromium VI.

** = Assumes chromium III (insoluble salt).

*** = Assumes mercury, Inorganic salts.

bgs = below ground surface

NA = Not analyzed

CHHSL = California Human Health Screening Levels

Regional Screening Levels = USEPA Screening Criteria (May 2010)

TABLE 2-15
Semivolatile Organic Compounds in Basement Fill and Stockpiled Material
Sunkist - Former Citrus Processing Plant
Ontario, CA

Sample Identification	Sample Date	Sample Depth (feet bgs) or Stockpile Description	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	Naphthalene	Phenanthrene	Pyrene
Stockpile Concrete																		
SP-11-C-1-1	8/18/2010	Soil	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Stockpile Concrete																		
SP-ASP-1	8/9/2010	Asphalt	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.025	<0.025	0.025	<0.025	<0.025	<0.025	0.03	<0.025
SP-ASP-2	8/9/2010	Asphalt	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.031	<0.025	0.026	<0.025	<0.025	<0.025	0.07	<0.025
Stockpile Concrete																		
SPC-A-1	9/9/2010	Concrete	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.025	<0.025	0.025	<0.025	<0.025	<0.025	0.03	<0.025
SPC-A-2	9/9/2010	Concrete	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.031	<0.025	0.026	<0.025	<0.025	<0.025	0.07	<0.025
SPC-B-1	9/9/2010	Concrete	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
SPC-C-1	9/9/2010	Concrete	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Stockpile Crushed Concrete																		
SPC-CC-1	9/9/2010	Crushed Concrete	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Screening Criteria																		
CHHSL Commercial/Industrial			-	-	-	-	0.13	-	-	-	-	-	-	-	-	-	-	-
Regional Screening Levels - Industrial			33000	-	170,000	2.1	0.21	2.1	-	21	210	0.21	22,000	22,000	2.1	18	-	17,000

Notes:

Results given in milligrams per kilogram (mg/kg).

< = Not detected at or above the listed reporting limit.

Bold = Values > Screening Criteria.

bgs = below ground surface

NA = Not analyzed

CHHSL = California Human Health Screening Levels

Regional Screening Levels = USEPA Screening Criteria (May 2010)

Table 2-16
Volatile Organic Compounds in Soil Vapor
Sunkist Growe: Ontario, California
Ontario, California

Subsurface Vapor Samples

Soil Vapor Probe Location	Depth (feet)	Date Installed	Date Sampled	Benzene	Carbon Tetrachloride	Chloroform	Dichlorodifluoromethane	1,1-Dichloroethene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Estimated Incremental Cancer Risk (Detected Compounds)
VP-1-5	4	8/10/2009	8/11/2009	<0.008	0.061	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	7E-07
VP-2-5	5	8/12/2009	8/13/2009	<0.008	0.079	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.027	9E-07
VP-2-15	15	8/12/2009	8/13/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
VP-3-5	5	8/10/2009	8/11/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA
VP-4-5	5	8/10/2009	8/10/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.037	NA
VP-4-15	15	8/10/2009	8/10/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.082	NA
VP-5-5	5	8/12/2009	8/13/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA
VP-5-15	14	8/12/2009	8/13/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
VP-6-5	5	8/11/2009	8/12/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.018	<0.008	<0.008	0.039	5E-11
VP-7-5	5	8/12/2009	8/13/2009	<0.008	<0.008	<0.008	<0.008	0.046	0.213	<0.008	<0.008	0.080	0.126	4E-07
VP-7-15	15	8/12/2009	8/13/2009	<0.008	<0.008	<0.008	<0.008	0.146	0.304	<0.008	<0.008	0.231	0.309	6E-07
VP-8-5	5	8/11/2009	8/12/2009	<0.008	<0.008	<0.008	<0.008	<0.008	0.028	<0.008	<0.008	<0.008	0.196	5E-08
VP-9-5	5	8/10/2009	8/11/2009	<0.008	0.092	<0.008	0.178	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	1E-06
VP-9-15	15	8/10/2009	8/11/2009	<0.008	0.263	<0.008	0.044	<0.008	<0.008	<0.008	<0.008	<0.008	0.026	3E-06
VP-10-5	5	8/12/2009	8/13/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA
VP-11-5	5	8/11/2009	8/12/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.026	<0.008	<0.008	<0.008	7E-11
VP-11-15	15	8/11/2009	8/12/2009	<0.008	0.071	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.142	8E-07
VP-12-5	5	8/11/2009	8/12/2009	<0.008	<0.008	<0.008	<0.008	0.754	2.22	0.064	<0.008	0.085	0.220	4E-06
VP-13-5	5	8/10/2009	8/11/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA
VP-14-5	5	8/11/2009	8/12/2009	<0.008	0.072	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.126	9E-07
VP-14-15	15	8/11/2009	8/12/2009	<0.008	0.094	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.204	1E-06
VP-15-5	5	8/11/2009	8/12/2009	<0.008	0.062	<0.008	<0.008	0.474	0.992	<0.008	<0.008	0.031	0.226	1E-06
VP-16-5	5	8/11/2009	8/12/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA
VP-16-16	16	8/11/2009	8/12/2009	<0.008	<0.008	<0.008	<0.008	<0.008	0.025	<0.008	<0.008	<0.008	0.044	4E-08
VP-17-5	5	8/10/2009	8/11/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA
VP-18-5	5	8/11/2009	8/12/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.042	<0.008	<0.008	<0.008	1E-10
VP-18-15	15	8/11/2009	8/12/2009	<0.008	0.073	<0.008	<0.008	<0.008	<0.008	<0.008	0.049	<0.008	<0.008	9E-07
VP-19-5	5	8/10/2009	8/12/2009	<0.008	0.067	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.138	8E-07
VP-20-5	5	8/12/2009	8/12/2009	<0.008	<0.008	<0.008	<0.008	<0.008	0.031	<0.008	<0.008	<0.008	0.117	5E-08
VP-20-15	15	8/12/2009	8/12/2009	<0.008	<0.008	<0.008	<0.008	<0.008	0.041	<0.008	<0.008	<0.008	0.221	7E-08
VP-21A-5	5	8/10/2009	8/11/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA
VP-21B-15	15	8/12/2009	8/12/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
VP-22-5	5	8/11/2009	8/11/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA
VP-23-5	5	8/12/2009	8/12/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	2.91	NA
VP-23-15	15	8/12/2009	8/12/2009	<0.008	0.075	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.537	9E-07
VP-24-5	5	8/11/2009	8/13/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA
VP-25-5	5	8/11/2009	8/11/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA
VP-25-15	15	8/11/2009	8/11/2009	<0.008	0.121	<0.008	<0.008	<0.008	0.020	<0.008	<0.008	<0.008	0.009	1E-06
VP-26-5	5	8/11/2009	8/11/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	NA
VP-27-5	5	8/12/2009	8/13/2009	0.111	<0.008	<0.008	<0.008	<0.008	<0.008	0.158	<0.008	<0.008	0.128	9E-07
VP-27-15	15	8/12/2009	8/13/2009	<0.008	0.117	0.040	0.376	<0.008	<0.008	<0.008	<0.008	<0.008	0.313	1E-06
VP-28-5	5	8/12/2009	8/13/2009	0.026	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.076	2E-07
VP-29-5	5	8/11/2009	8/11/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.064	<0.008	0.010	2E-11
VP-30-5	5	8/11/2009	8/11/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.050	NA
VP-30-15	15	8/11/2009	8/11/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.092	NA
VP-31-5	5	8/11/2009	8/11/2009	0.061	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	5E-07
VP-32-5	4.5	8/11/2009	8/12/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.022	<0.008	<0.008	0.012	6E-11
VP-32-15	15	8/11/2009	8/12/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.108	NA

QA/QC Samples

VP-4-15 (Dup)	15	8/10/2009	8/11/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.096	
VP-23-15 (Dup)	15	8/12/2009	8/12/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.603	
VP-2-5 (Dup)	5	8/12/2009	8/13/2009	<0.008	0.081	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	0.027	
VP-1-5 (1P)	5	8/10/2009	8/11/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	

Table 2-16
Volatile Organic Compounds in Soil Vapor
Sunkist Growe: Ontario, California
Ontario, California

Subsurface Vapor Samples

Soil Vapor Probe Location	Depth (feet)	Date Installed	Date Sampled	Benzene	Carbon Tetrachloride	Chloroform	Dichlorodifluoromethane	1,1-Dichloroethene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Estimated Incremental Cancer Risk (Detected Compounds)
VP-1-5 (7P)	5	8/10/2009	8/11/2009	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	

Screening Criteria

<i>Commercial/Industrial CHHSLs</i>		0.122	0.0846	NA	NA	NA	0.603	378	2,790	1.77	NA
<i>Residential CHHSLs</i>		0.0362	0.0251	NA	NA	NA	0.180	135	991	0.528	NA

Notes:

Results given in micrograms per liter (ug/l).

Samples collected after purging three air volumes (3P) unless otherwise noted.

< = Not detected at or above the listed reporting limit.

Bold = Indicates sample collected from 5 foot depth with a concentration > commercial/industrial CHHSLs.

Estimated cancer risk calculated based on dermal contact and ingestion pathways for industrial workers based on the cumulative PCB concentrations detected, as specified in *Use of California Human Health Screening Levels* (CHHSLs) in Evaluation of Contaminated Properties (January 2005), where estimated cancer risk = \sum detected concentration/CHHSL \times (1×10^{-6}) [CHHSL target risk].

Abbreviations:

CHHSLs = California Human Health Screening Levels for Shallow Soil Gas - Commercial/Industrial Land Use - Without engineered fill below sub-slab gravel.

Dup = Duplicate sample

1P = Samples collected after purging one well volume.

7P = Samples collected after purging seven well volumes.

Table 3-1
 Soil Metals Data Statistics Summary*
 616 Sunkist Street
 Ontario, California

Metals	Number of Detections	Number of Non-Detections	Detection Frequency (%)	Minimum Detected Value (mg/kg)	Maximum Detected Value (mg/kg)	Mean Concentration (mg/kg)	Median Concentration (mg/kg)	Standard Deviation	Skewness	Coefficient of Variability	95UCL (mg/kg)	Value Used in HHRA (mg/kg)	Source
Antimony	0	47	0	--	--	--	--	--	--	--	--	--	--
Arsenic**	46	1	98	0.50	11.90	4.74	4.46	2.97	0.67	0.63	5.61	**	**
Barium	47	0	100	14.10	130.00	64.02	57.80	25.72	0.52	0.40	70.32	70.32	95UCL
Beryllium	0	47	0	--	--	--	--	--	--	--	--	--	--
Cadmium	0	47	0	--	--	--	--	--	--	--	--	--	--
Chromium	47	0	100	2.51	575.00	35.09	23.00	80.99	6.72	2.31	86.58	86.58	95UCL
Cobalt	47	0	100	2.50	17.80	8.58	8.20	3.70	0.50	0.43	9.50	9.50	95UCL
Copper	47	0	100	7.40	162.00	26.09	17.10	31.04	3.28	1.19	45.83	45.83	95UCL
Lead	47	0	100	2.51	107.00	14.14	5.62	21.92	2.82	1.55	28.08	28.08	95UCL
Mercury	47	0	100	0.65	0.65	NC	NC	NC	NC	NC	NC	0.65	Maximum
Molybdenum	0	47	0	--	--	--	--	--	--	--	--	--	--
Nickel	46	1	98	2.50	90.00	14.40	10.60	13.28	4.26	0.92	17.01	17.01	95UCL
Selenium	0	47	0	--	--	--	--	--	--	--	--	--	--
Silver	0	47	0	--	--	--	--	--	--	--	--	--	--
Thallium	0	47	0	--	--	--	--	--	--	--	--	--	--
Vanadium	46	1	98	0.50	53.20	29.12	30.30	13.28	-0.07	0.46	32.37	32.37	95UCL
Zinc	47	0	100	8.80	247.00	62.73	47.70	47.84	2.20	0.76	76.09	76.09	95UCL

Notes:

* Statistical parameters estimated using ProUCL software. See Appendix B for ProUCL printouts.

** Arsenic was not considered to be a chemical of potential concern (COPC) in accordance with DTSC 2007.

95UCL = 95 percent upper confidence limit on the average concentration

mg/kg = Milligrams per kilogram

NC = Not calculated

ND = Not detected

Table 3-2
 Organic Chemicals Statistics Summary
 616 Sunkist Street
 Ontario, California

Volatile Organic Compounds	Number of Detections	Number of Non-Detections	Detection Frequency (%)	Minimum Detected Value (mg/kg)	Maximum Detected Value (mg/kg)	Mean Detected Concentration (mg/kg)	Value Used in HHRA (mg/kg)	Source
<i>Chemicals Detected Only in Soil</i>								
<i>PAHs</i>								
Anthracene	2	35	5	0.04	0.31	0.18	0.31	Maximum
Benzo(a)anthracene	3	34	8	0.03	2.67	0.94	2.67	Maximum
Benzo(a)pyrene	2	35	5	0.07	2.65	1.36	2.65	Maximum
Benzo(b)fluoranthene	2	35	5	0.13	4.37	2.25	4.37	Maximum
Benzo(g,h,i)perylene	1	36	3	0.51	0.51	0.51	0.51	Maximum
Benzo(k) fluoranthene	2	35	5	0.15	1.83	0.99	1.83	Maximum
Chrysene	5	32	14	0.03	2.44	0.56	2.44	Maximum
Fluoranthene	5	32	14	0.03	4.18	0.90	4.18	Maximum
Naphthalene	1	36	3	0.04	0.04	0.04	0.04	Maximum
Phenanthrene	5	32	14	0.03	0.83	0.22	0.83	Maximum
Pyrene	3	34	8	0.06	5.87	2.12	5.87	Maximum
<i>PCBs</i>								
Arochlor 1254	25	25	50	0.04	2.37	0.50	0.40	95UCL
<i>Pesticides</i>								
DDD	2	69	3	0.018	0.0318	0.025	0.0318	Maximum
DDE	6	65	8	0.008	128	21.397	128	Maximum
DDT	3	68	4	0.012	0.235	0.088	0.235	Maximum
delta-BHC	1	70	1	0.014	0.0137	0.014	0.0137	Maximum
alpha-Chlordane	3	68	4	0.010	5.36	1.794	5.36	Maximum
gamma-Chlordane	3	68	4	0.016	5.84	1.962	5.84	Maximum
Endrin Ketone	1	70	1	0.015	0.015	0.015	0.015	Maximum
<i>TPH</i>								
TPH C4 - C12 aliphatic	10	31	24	3.25	3,320	550	3,320	Maximum
TPH C8 - C36 aliphatic	22	19	54	10.90	17,100	3,103	17,100	Maximum
TPH C36 - C40 aliphatic	8	33	20	54.00	574	324	574	Maximum
<i>VOCs</i>								
n-Butylbenzene	1	36	3	2.04	2.04	2.04	2.04	Maximum
1,2,4-Trimethylbenzene	1	36	3	4.12	4.12	4.12	4.12	Maximum
1,3,5-Trimethylbenzene	1	36	3	2.15	2.15	2.15	2.15	Maximum
tert-Butylbenzene	1	36	3	7.36	7.36	7.36	7.36	Maximum
<i>Chemicals Detected Only in Crushed Concrete</i>								
<i>PCBs</i>								
Arochlor 1254	50	1	98	0.12	27.20	3.55	6.42	95UCL

Notes:
 mg/kg = Milligrams per kilogram
 ND = Not detected
 NC = Not calculated

Table 3-3
 Statistical Summary for VOCs Detected in Soil Gas at a Depth of 5 Feet
 616 Sunkist Street
 Ontario, California

Volatile Organic Compounds	Number of Detections	Number of Samples	Detection Frequency (%)	Minimum Detected Value (ug/L)	Maximum Detected Value (ug/L)	Mean Concentration (ug/L)	Value Used in HHRA (ug/L)	Source
1,1-Dichloroethylene	3	32	9	0.05	0.75	0.42	0.75	Maximum
1,1,1-Trichloroethane	1	34	3	0.06	0.06	0.06	0.06	Maximum
Benzene	3	32	9	0.03	0.11	0.07	0.11	Maximum
Carbon Tetrachloride	7	28	25	0.06	0.09	0.07	0.09	Maximum
Chloroform	0	35	0	0.00	0.00	0.00	0.00	Maximum
Dichlorodifluoromethane	1	34	3	0.18	0.18	0.18	0.18	Maximum
Tetrachloroethylene	5	30	17	0.03	2.22	0.70	2.22	Maximum
Toluene	6	29	21	0.02	0.16	0.06	0.16	Maximum
Trichloroethylene	3	32	9	0.03	0.09	0.07	0.09	Maximum
Trichlorofluoromethane	17	18	94	0.01	2.91	0.26	2.91	Maximum

Notes:
 ug/L = Micrograms per liter
 ND = Not detected
 NC = Not calculated

Table 3- 4
 Statistical Summary for VOCs Detected in Soil Gas at a Depth of 15 Feet
 616 Sunkist Street
 Ontario, California

Volatile Organic Compounds	Number of Detections	Number of Samples	Detection Frequency (%)	Minumum Detected Value (ug/L)	Maximum Detected Value (ug/L)	Mean Concentration (ug/L)	Value Used in HHRA (ug/L)	Source
1,1-Dichloroethylene	1	15	7	0.15	0.15	0.15	0.15	Maximum
1,1,1-Trichloroethane	1	15	7	0.05	0.05	0.05	0.05	Maximum
Benzene	0	15	0	0.00	0.00	0.00	0.00	Maximum
Carbon Tetrachloride	7	15	47	0.07	0.26	0.12	0.26	Maximum
Chloroform	1	15	7	0.04	0.04	0.04	0.04	Maximum
Dichlorodifluoromethane	2	15	13	0.04	0.38	0.21	0.38	Maximum
Tetrachloroethylene	4	15	27	0.02	0.30	0.10	0.30	Maximum
Toluene	0	15	0	0.00	0.00	0.00	0.00	Maximum
Trichloroethylene	1	15	7	0.23	0.23	0.23	0.23	Maximum
Trichlorofluoromethane	14	15	93	0.01	0.60	0.20	0.60	Maximum

Notes:
 ug/L = Micrograms per liter
 ND = Not detected
 NC = Not calculated

Table 4-1
 Particulate Emission Factor Calculation
 Soil Exposure Scenario
 616 Sunkist Street
 Ontario, California

Soil Parameters	Value Used	Units	Reference
Water filled soil porosity (Theta w)	2.00E-01	(Lwater-Lsoil)	Default
Total soil porosity (n)	4.30E-01	(Lpore-Lsoil)	Default
Air filled soil porosity (Theta a)	2.30E-01	(Lair-Lsoil)	Default
Soil particle density (ps)	2.50E+00	g/cm ³	Default
Exposure Interval (T)	7.88E+08	sec	Default (EPA 2002)
Soil Bulk Density (Pb)	1.5	g/cm ³	Default
Fraction organic carbon in soil	6.00E-03	unitless	Default
Inverse of mean concentration (Q/C)	40.61	(g/m ² -s per kg/m ³)	Default for an 11-acre site in Los Angeles (EPA 2002)
Fraction of vegetative cover (G)	0.5	unitless	Default (EPA 2002)
Mean Annual Wind speed (Um)	4.69	m/s	Default (EPA 2002)
Equivalent threshold value of wind speed at 7m (Ut)	11.32	m/s	Default (EPA 2002)
Function dependent on Um/Ut (Fx)	1.94E-01	unitless	Default (EPA 2002)
Particulate Emission Factor (PEF)	5.89E+08	m ³ /kg	Calculated

Formulas:

$$PEF = Q/C * [3600 / (0.036 * (1-G) * (Um/Ut)^3 * Fx)]$$

Q/C = inverse of mean concentration at center of a 0.5 acre square source (g/m²-s per kg/m³)

G = fraction of vegetative cover (unitless)

Um = mean annual wind speed (m/s)

Ut = equivalent threshold value of wind speed at 7 meters (m/s)

F(x) = function dependent on Um/Ut (unitless)

Table 4-2
 Volatilization Emission Factor Calculation
 Soil Exposure Scenario
 616 Sunkist Street
 Ontario, California

Soil Parameters	Value Used	Units	Reference
Water filled soil porosity (Theta w)	1.50E-01	(Lwater-Lsoil)	Default
Total soil porosity (n)	4.30E-01	(Lpore-Lsoil)	Default
Air filled soil porosity (Theta a)	2.80E-01	(Lair-Lsoil)	Default
Soil particle density (ps)	2.50E+08	g/cm ³	Default
Exposure Interval (T)	7.88E+08	sec	Default (EPA 2002)
Soil Bulk Density (Pb)	1.5	g/cm ³	Default
Fraction organic carbon in soil	6.00E-03	unitless	Default
Inverse of mean concentration (Q/C) (for VF)	40.61	(g/m ² -s per kg/m ³)	Default for an 11-acre site in Los Angeles (EPA 2002)

Compound	Diffusivity in air (Di) (cm ² /sec)	Henry's Law Const (H') (dimensionless)	Diffusivity in water (Dw) (cm ² /sec)	Soil-water partition coefficient (Kd) (cm ³ /g)	Soil organic carbon partition coefficient (Koc) (cm ³ /g)	Apparent Diffusivity (Da)	Volatilization Factor (VF)
VOCs							
1,2,4-Trimethylbenzene	7.5E-02	2.3E-01	7.1E-06	2.2E+01	3.7E+03	4.0E-05	1.1E+04
1,3,5-Trimethylbenzene	7.5E-02	3.2E-01	7.1E-06	4.9E+00	8.2E+02	2.4E-04	4.3E+03
n-Butylbenzene	7.5E-02	5.4E-01	7.8E-06	1.7E+01	2.8E+03	1.2E-04	6.1E+03
tert-Butylbenzene	7.5E-02	5.2E-01	7.8E-06	1.3E+01	2.2E+03	1.5E-04	5.4E+03

VOC Equation:

$$VF = Q/C * ((3.14 * D_a * T)^{1/2} * 10^{-4}) / (2 * P_b * D_s)$$

Table 4-3
 Estimated Ambient Air Exposure Point Concentrations
 Offsite Residential Exposure Scenario
 616 Sunkist Street
 Ontrario, California

COPC	Onsite Soil or Cruched Concrete Chemical Concentration (mg/kg)	Unpaved Road Dust Emission Factor	Estimated Offsite Air Exposure Point Concentration
		(Kg/m ³)	(µg/m ³)
<i>Metals</i>			
Barium	70.32	2.02E-08	1.42E-03
Chromium III	86.58	2.02E-08	1.75E-03
Cobalt	9.5	2.02E-08	1.92E-04
Copper	45.83	2.02E-08	9.28E-04
Mercury	0.65	2.02E-08	1.32E-05
Nickel	17.01	2.02E-08	3.44E-04
Vanadium	32.37	2.02E-08	6.55E-04
Zinc	76.09	2.02E-08	1.54E-03
<i>PAHs</i>			
Anthracene	0.31	2.02E-08	6.28E-06
Benzo(a)anthracene	2.67	2.02E-08	5.41E-05
Benzo(a)pyrene	2.65	2.02E-08	5.36E-05
Benzo(b)fluoranthene	4.37	2.02E-08	8.85E-05
Benzo(g,h,i)perylene	0.51	2.02E-08	1.03E-05
Benzo(k)fluoranthene	1.83	2.02E-08	3.70E-05
Chrysene	2.44	2.02E-08	4.94E-05
Fluoranthene	4.18	2.02E-08	8.46E-05
Naphthalene	0.04	2.02E-08	8.10E-07
Phenanthrene	0.83	2.02E-08	1.68E-05
Pyrene	5.87	2.02E-08	1.19E-04
<i>PCBs</i>			
Aroclor 1254	6.418	2.02E-08	1.30E-04
<i>Pesticides</i>			
DDD	0.0318	2.02E-08	6.44E-07
DDE	128	2.02E-08	2.59E-03
DDT	0.235	2.02E-08	4.76E-06
delta-BHC	0.0137	2.02E-08	2.77E-07
alpha-Chlordane	11.2	2.02E-08	2.27E-04
gamma-Chlordane	5.84	2.02E-08	1.18E-04
Endrin Ketone	0.015	2.02E-08	3.04E-07
<i>TPH</i>			
TPH C4 - C12 aliphatic	3320	2.02E-08	6.72E-02
TPH C8 - C36 aliphatic	17100	2.02E-08	3.46E-01
TPH C36 - C40 aliphatic	574	2.02E-08	1.16E-02

Notes:

mg/kg = micrograms per kilogram
 COPC = Chemicals of potential concern
 µg/m³ = micrograms per cubic meter
 mg/m³ = milligrams per cubic meter

Table 4-4
 Exposure Parameters for Onsite Receptors
 Crushed Concrete Exposure Scenario
 616 Sunkist Street
 Ontario, California

Exposure/Site Specific Parameters	Units	Worker Exposure Parameters		
		Outdoor Nonintrusive	Construction	Source
Soil Ingestion Rate (IR-S)	mg/day	100	330	USEPA 2010
Skin Surface Area (SA)	cm ² /day	3,300	3,300	USEPA 2010
Skin Adsorption Factor (ABS)	unitless	chem-specific	chem-specific	DTSC 1994/EPA 1997
Adherence Factor (AF)	mg/cm ²	0.20	0.30	USEPA 2010
Fraction of Soil Exposed (FE)	unitless	1	0.5	USEPA 2010
Inhalation Rate of Air (IR-A)	m ³ /day	20	20	USEPA 2010
Exposure Frequency (EF)	days/year	250	250	USEPA 2010
Exposure Frequency (dermal; EF _d)	days/year	250	250	USEPA 2010
Exposure Duration (ED)	years	25	1	USEPA 2010 / Default
Conversion Factor (CF)	kg/mg	1.0E-06	1.0E-06	--
Body Weight (BW)	kg	70	70	USEPA 2010
Averaging Time for Noncarcinogens (AT _n)	days	9,125	365	USEPA 1989 (ED*365 days/yr)
Averaging Time for Carcinogens (AT _c)	days	25,550	25,550	USEPA 1989

Table 4-5
 Exposure Parameters for Onsite Receptors
 Soil Exposure Scenario
 616 Sunkist Street
 Ontario, California

Exposure/Site Specific Parameters	Units	Worker Exposure Parameters		
		Outdoor Nonintusive	Construction	Source
Soil Ingestion Rate (IR-S)	mg/day	100	330	HERD 2005
Skin Surface Area (SA)	cm ² /day	5,700	5,700	HERD 2005
Skin Adsorption Factor (ABS)	unitless	chem-specific	chem-specific	DTSC 1994/EPA 1997
Adherence Factor (AF)	mg/cm ²	0.20	0.80	HERD 2005
Fraction of Soil Exposed (FE)	unitless	1	1	Default
Inhalation Rate of Air (IR-A)	m ³ /day	14	20	HERD 2005
Exposure Frequency (EF)	days/year	250	250	HERD 2005
Exposure Frequency (dermal; EF _d)	days/year	250	250	HERD 2005
Exposure Duration (ED)	years	25	1	Default
Conversion Factor (CF)	kg/mg	1.0E-06	1.0E-06	--
Body Weight (BW)	kg	70	70	HERD 2005
Averaging Time for Noncarcinogens (AT _n)	days	9,125	365	EPA 1989 (ED*365 days/yr)
Averaging Time for Carcinogens (AT _c)	days	25,550	25,550	EPA 1989

Table 4-6
 Residential Receptors
 Offsite Residential Exposure Scenario
 616 Sunkist Street
 Ontrario, California

Exposure Parameters	Units	Residential Exposure Scenario		
		Adult	Child	Source
Chemical Concentration in Air (CA)		--	--	chemical-specific
Exposure Frequency (EF)	days/year	350	350	HERD 2005
Exposure Duration (ED)	years	24	6	HERD 2005
Exposure Time (ET)	hr/day	16	24	Default
Averaging Time for Noncarcinogens (AT _n)	hours	210,240	52,560	USEPA 2009
Averaging Time for Carcinogens (AT _c)	hours	613,200	613,200	USEPA 2009

Table 5-1
 Toxicity Criteria of Chemicals of Potential Concern
 Soil Exposure Scenario
 616 Sunkist Street
 Ontario, California

Chemical	Chronic Oral Reference Dose (RfDo)		Chronic Inhalation Reference Dose (RfDi)		Oral Cancer Slope Factor (CSFo)		Inhalation Cancer Slope Factor (CSFi)	
	[mg/kg-day]		[mg/kg-day]		[mg/kg-day] ⁻¹		[mg/kg-day] ⁻¹	
<i>Metals</i>								
Barium	7.0E-02	i	1.4E-04	h	NA		NA	
Chromium III	1.5E+00	i	NA		NA		NA	
Cobalt	2.0E-02	n	5.7E-06		NA		9.8E+00	n
Copper	4.0E-02	h	NA		NA		NA	
Mercury	3.0E-04	i	2.6E-05		NA		NA	
Nickel	2.0E-02		1.4E-05	c	NA		9.1E-01	c
Vanadium	7.0E-03	h	NA		NA		NA	
Zinc	3.0E-01	i	NA		NA		NA	
<i>PAHs</i>								
Anthracene	3.0E-01	i	3.0E-01		NA		NA	
Benzo(a)anthracene	NA		NA		1.2E+00	c	3.9E-01	c
Benzo(a)pyrene	NA		NA		1.2E+01	c	3.9E+00	c
Benzo(b)fluoranthene	NA		NA		1.2E+00	c	3.9E-01	c
Benzo(g,h,i)perylene	6.0E-02	i	6.0E-02		NA		NA	
Benzo(k)fluoranthene	NA		NA		1.2E+00	c	3.9E-01	c
Chrysene	NA		NA		1.2E-01	c	3.9E-02	c
Fluoranthene	4.0E-02	i	4.0E-02	r	NA		NA	
Naphthalene	2.0E-02	i	2.6E-03	c	NA		NA	
Phenanthrene	6.0E-02	i	6.0E-02	r	NA		NA	
Pyrene	3.0E-02	i	3.0E-02	r	NA		NA	
<i>PCBs</i>								
Aroclor 1254	2.0E-05	i	NA	###	2.0E+00	c	2.0E+00	c
<i>Pesticides</i>								
DDD	NA		NA		2.4E-01	c	2.4E-01	c
DDE	NA		NA		3.4E-01	c	3.4E-01	c
DDT	5.0E-04	i	5.0E-04	r	3.4E-01	c	3.4E-01	c
delta-BHC	NA		NA		4.0E+00	c	4.0E+00	c
alpha-Chlordane	5.0E-04	i	2.0E-04	i	3.5E-01	i	3.5E-01	i
gamma-Chlordane	5.0E-04	i	2.0E-04	i	3.5E-01	i	3.5E-01	i
Endrin Ketone	3.0E-04	i	3.0E-04	r	NA		NA	
<i>TPH</i>								
TPH C4 - C12 aliphatic	1.0E-01	t	2.9E-01	t	NA	t	NA	t
TPH C8 - C36 aliphatic	1.0E-01	t	2.9E-01	t	NA	t	NA	t
TPH C36 - C40 aliphatic	2.0E+00	t	NA	t	NA	t	NA	t
<i>VOCs</i>								
n-Butylbenzene	4.0E-02	n	4.0E-02	r	NA		NA	
1,2,4-Trimethylbenzene	5.0E-02	n	1.7E-03	n	NA		NA	
1,3,5-Trimethylbenzene	5.0E-02	n	1.7E-03	n	NA		NA	
tert-Butylbenzene	4.0E-02	n	4.0E-02	r	NA		NA	

Notes:
 c = Cal/EPA Cancer Potency Database 2011
 h = HEAST value (USEPA, 1997)
 i = Integrated Risk Information System
 n = NCEA
 NA = Not available or not applicable.
 r = Oral to Inhalation Route Extrapolation

Table 6-1
 Estimated Cumulative Risks and Hazards
 Soil Exposure Scenario
 616 Sunkist Street
 Ontario, California

COPC	Worker Exposure Scenario				
	Exposure Point Conc. (mg/kg)	Cancer Risk		Hazard Index	
		Outdoor Nonintrusive Worker	Const. Worker	Outdoor Nonintrusive Worker	Const. Worker
<i>Metals</i>					
Barium	70.32	--	--	1.21E-03	3.9E-03
Chromium III	86.58	--	--	6.29E-05	2.1E-04
Cobalt	9.5	7.7E-09	4.4E-10	9.06E-04	2.3E-03
Copper	45.83	--	--	1.25E-03	4.2E-03
Mercury	0.65	--	--	2.37E-03	8.0E-03
Nickel	17.01	1.3E-09	7.4E-11	1.20E-03	3.5E-03
Vanadium	32.37	--	--	5.04E-03	1.7E-02
Zinc	76.09	--	--	2.76E-04	9.3E-04
<i>PAHs</i>					
Anthracene	0.31	--	--	2.74E-06	1.0E-05
Benzo(a)anthracene	2.67	2.8E-06	4.1E-07	--	--
Benzo(a)pyrene	2.65	2.8E-05	4.1E-06	--	--
Benzo(b)fluoranthene	4.37	4.5E-06	6.8E-07	--	--
Benzo(g,h,i)perylene	0.51	--	--	2.25E-05	8.4E-05
Benzo(k)fluoranthene	1.83	1.9E-06	2.8E-07	--	--
Chrysene	2.44	2.5E-07	3.8E-08	--	--
Fluoranthene	4.18	--	--	2.54E-04	9.4E-04
Naphthalene	0.04	--	--	4.19E-06	1.5E-05
Phenanthrene	0.83	--	--	3.67E-05	1.4E-04
Pyrene	5.87	--	--	5.19E-04	1.9E-03
<i>PCBs</i>					
Aroclor 1254	0.401	7.6E-07	1.1E-07	5.32E-02	2.0E-01
<i>Pesticides</i>					
DDD	0.0318	3.6E-09	5.0E-10	--	--
DDE	0.128	2.0E-08	2.8E-09	--	--
DDT	0.235	3.7E-08	5.2E-09	6.17E-04	2.1E-03
delta-BHC	0.0137	2.8E-08	3.9E-09	--	--
alpha-Chlordane	0.00536	9.5E-10	1.3E-10	1.53E-05	5.4E-05
gamma-Chlordane	0.00584	1.0E-09	1.5E-10	1.66E-05	5.9E-05
Endrin Ketone	0.015	--	--	1.05E-04	3.8E-04
<i>TPH</i>					
TPH C4 - C12 aliphatic	3320	--	--	6.95E-02	2.6E-01
TPH C8 - C36 aliphatic	17100	--	--	3.58E-01	1.3E+00
TPH C36 - C40 aliphatic	574	--	--	6.01E-04	2.2E-03
<i>VOCs</i>					
n-Butylbenzene	2.04	--	--	1.25E-03	2.0E-03
1,2,4-Trimethylbenzene	4.12	--	--	3.15E-02	4.5E-02
1,3,5-Trimethylbenzene	2.15	--	--	4.01E-02	5.7E-02
tert-Butylbenzene	7.36	--	--	5.02E-03	8.0E-03
TOTAL RISKS and HAZARDS		3.8E-05	5.6E-06	5.7E-01	1.9E+00

Notes:

"*" compound not a COPC; "--" Not Applicable

Includes Incidental Soil Ingestion, Dermal Contact, and Fugitive Dust Inhalation

EPC: Exposure Point Concentration in milligrams per kilogram used in the risk and hazard calculations

Table 6-2
 Estimated Cumulative Risks and Hazards
 Crushed Concrete Exposure Scenario
 616 Sunkist Street
 Ontario, California

COPC	Worker Exposure Scenario				
	Exposure Point Conc. (mg/kg)	Cancer Risk		Hazard Index	
		Outdoor Nonintrusive Worker	Construction Worker	Outdoor Nonintrusive Worker	Construction Worker
<i>PAHs</i>					
Aroclor 1254	6.418	8.6E-06	4.2E-07	6.04E-01	7.4E-01
TOTAL RISKS and HAZARDS		8.6E-06	4.2E-07	6.0E-01	7.4E-01

Notes:

"*" compound not a COPC; "--" Not Applicable

Includes Incidental Soil Ingestion, Dermal Contact, and Fugitive Dust Inhalation

EPC: Exposure Point Concentration in milligrams per kilogram used in the risk and hazard calculations

Table 6-3
 Estimated Cumulative Risks and Hazards
 Offsite Residential Exposure Scenario
 616 Sunkist Street
 Ontario, California

Chemicals of Potential Concern	Residential Exposure Scenario		
	Estimated Maximum Ambient Air EPC (ug/m ³)	Cancer Risk Adult & Child	Hazard Index Child
<i>Metals</i>			
Barium	1.4E-03	NA	2.7E-03
Chromium III	1.8E-03	NA	NA
Cobalt	1.9E-04	5.2E-07	3.1E-02
Copper	9.3E-04	NA	NA
Mercury	1.3E-05	NA	4.2E-04
Nickel	3.4E-04	2.7E-08	NA
Vanadium	6.6E-04	NA	NA
Zinc	1.5E-03	NA	NA
<i>PAHs</i>			
Anthracene	6.3E-06	NA	NA
Benzo(a)anthracene	5.4E-05	1.8E-09	NA
Benzo(a)pyrene	5.4E-05	1.8E-08	NA
Benzo(b)fluoranthene	8.8E-05	2.9E-09	NA
Benzo(g,h,i)perylene	1.0E-05	NA	NA
Benzo(k)fluoranthene	3.7E-05	1.2E-09	NA
Chrysene	4.9E-05	1.6E-10	NA
Fluoranthene	8.5E-05	NA	NA
Naphthalene	8.1E-07	8.3E-12	8.6E-08
Phenanthrene	1.7E-05	NA	NA
Pyrene	1.2E-04	NA	NA
<i>PCBs</i>			
Aroclor 1254	1.3E-04	2.2E-08	NA
<i>Pesticides</i>			
DDD	6.4E-07	1.3E-11	NA
DDE	2.6E-03	7.6E-08	NA
DDT	4.8E-06	1.4E-10	NA
delta-BHC	2.8E-07	9.2E-11	NA
alpha-Chlordane	2.3E-04	2.3E-08	3.1E-04
gamma-Chlordane	1.2E-04	1.2E-08	1.6E-04
Endrin Ketone	3.0E-07	NA	NA
<i>TPH</i>			
TPH C4 - C12 aliphatic	6.7E-02	NA	9.2E-05
TPH C8 - C36 aliphatic	3.5E-01	NA	1.1E-03
TPH C36 - C40 aliphatic	1.2E-02	NA	NA
TOTAL RISKS and HAZARDS		7.1E-07	3.6E-02

Notes:

NA = Not Applicable

Includes Fugitive Dust Inhalation

EPC = Exposure Point Concentration in milligrams per kilogram used in the risk and hazard calculat

ug/m³ = Micrograms per cubic meter

Table 6-4
 Estimated Incremental Cancer Risks and Health Hazards that May Result from Indoor Air Vapor Intrusion
 for VOCs Detected at a Depth of 5 feet Below Ground Surface
 616 Sunkist Street
 Ontario, California

Chemical of Potential Concern (COPC)	CAS Number	Exposure to Indoor Air			
		Soil-Gas Concentration (µg/L)	Indoor Chemical Air Concentration (ug/m ³)	Cancer Risk (unitless)	Hazard Index (unitless)
1,1-Dichloroethylene	75354	0.754	4.15E-01	NA	4.1E-03
1,1,1-Trichloroethane	71556	0.064	3.30E-02	NA	4.5E-06
Benzene	71432	0.111	6.05E-02	4.3E-07	1.4E-03
Carbon Tetrachloride	56235	0.092	4.75E-02	4.9E-07	8.1E-04
Chloroform	67663	0	0.00E+00	0.0E+00	0.0E+00
Dichlorodifluoromethane	75718	0.178	8.48E-02	NA	2.9E-04
Tetrachloroethylene	127184	2.22	1.10E+00	1.6E-06	2.2E-02
Toluene	108883	0.158	8.57E-02	NA	2.0E-04
Trichloroethylene	79016	0.085	4.41E-02	2.2E-08	5.0E-05
Trichlorofluoromethane	75694	2.91	1.58E+00	NA	1.5E-03
TOTAL RISKS and HAZARDS				2.5E-06	3.0E-02

Notes:

µg/L = micrograms per liter
 NA = Not applicable or not available

Table 6-5
 Estimated Incremental Cancer Risks and Health Hazards that May Result from Indoor Air Vapor Intrusion
 for VOCs Detected at a Depth of 15 feet Below Ground Surface
 616 Sunkist Street
 Ontario, California

Chemical of Potential Concern (COPC)	CAS Number	Exposure to Indoor Air			
		Soil-Gas Concentration (µg/L)	Indoor Chemical Air Concentration (ug/m ³)	Cancer Risk (unitless)	Hazard Index (unitless)
1,1-Dichloroethylene	75354	0.146	4.07E-02	NA	4.0E-04
1,1,1-Trichloroethane	71556	0.049	1.23E-02	NA	1.7E-06
Benzene	71432	0	0.00E+00	0.0E+00	0.0E+00
Carbon Tetrachloride	56235	0.263	6.60E-02	6.8E-07	1.1E-03
Chloroform	67663	0.04	1.23E-02	1.6E-08	2.8E-05
Dichlorodifluoromethane	75718	0.376	8.36E-02	NA	2.9E-04
Tetrachloroethylene	127184	0.304	7.18E-02	1.0E-07	1.4E-03
Toluene	108883	0	0.00E+00	NA	0.0E+00
Trichloroethylene	79016	0.231	5.85E-02	2.9E-08	6.7E-05
Trichlorofluoromethane	75694	0.603	1.64E-01	NA	1.6E-04
TOTAL RISKS and HAZARDS				8.3E-07	3.5E-03

Notes:

µg/L = micrograms per liter
 NA = Not applicable or not available

Appendix A

*Documentation of County
Approval to Backfill Lift*

From: [Crutsinger, Jackson](mailto:jcrutsinger@sbcfire.org)
To: [Brett Bowyer](mailto:brettbowyer@bowyerenvironmental.com)
Subject: RE: Sunkist Ontario - Site Visit Summary - L-64 Removal Action
Date: Monday, October 04, 2010 8:21:34 AM

Thanks Brett for writing up a summary of our field inspection. I concur with your account, and confirm a verbal approval to backfill the excavation.

Jackson Crutsinger, R.E.H.S., R.H.S.P.
Hazardous Materials Specialist III
Fire Department/HAZMAT
(909) 386-8439
jcrutsinger@sbcfire.org

From: Brett Bowyer [mailto:brettbowyer@bowyerenvironmental.com]
Sent: Thursday, September 30, 2010 11:10 AM
To: Crutsinger, Jackson
Subject: Sunkist Ontario - Site Visit Summary - L-64 Removal Action

Hello Jackson,

As we discussed, I am sending you this email to summarize the Site visit that you performed on September 29, 2010. During the Site visit you observed the excavation area associated with the removal action that took place at the former lift floor structure in the Basement that formerly underlay Building 64. As per the information sent to you on September 28, 2010, the excavation took place on September 20, 2010. It was performed as a result of slightly elevated PCB concentrations that were observed in soil that underlay the concrete floor of the former lift floor structure. The excavation extended to a depth of approximately 5.0 feet beneath the former floor of the lift structure, and extended over an area of approximately 14 (east to west) by 10 (north to south) feet. As shown on the tables submitted on September 28, 2010, none of the five confirmation soil samples contained significant concentrations of PCBs.

You also observed the soil stockpile that was generated during the L-64 removal action. This stockpile will be disposed of offsite.

Based on the results provided and the site visit, you verbally approved the backfilling of the former L-64 removal action area as additional work in this area is not warranted.

We appreciate your continued responsiveness with respect to this project. If you have any questions regarding this Site Visit Summary, please feel free to call.

Thanks.

Brett Bowyer, P.G.
Bowyer Environmental Consulting, Inc.
17011 Beach Boulevard, Suite 900

Huntington Beach, CA 92647

Office: (877) BEC-INC-0

(877) 232-4620

Cell: (714) 878-7191

FAX: (714) 840-4963

brettbowyer@bowyerenvironmental.com

www.bowyerenvironmental.com

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Appendix B

Data Validation



Laboratory Data Consultants, Inc.

7750 El Camino Real, Ste. 2L Carlsbad, CA 92009

Phone 760.634.0437

Web www.lab-data.com

Fax 760.634.0439

Bowyer Environmental Consulting, Inc.
17011 Beach Boulevard, Suite 900
Huntington Beach, CA 92647
ATTN: Mr. Brett Bowyer

March 1, 2011

SUBJECT: Sunkist Ontario Site, Data Validation

Dear Mr. Bowyer,

Enclosed is the final validation report for the fractions listed below. These SDGs were received on February 22, 2011. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 24959, 24960, & 24964:

SDG

B10G049, B10G051, B10G052, B10G052A
B10G056, B10H005, B10H006, B10H011
B10H011A, B10H021, B10H023, B10H029
B10H029A, B10H030, B10H031, B10H035
B10H039, B10H047, B10I005, B10I007
B10I010, B10I013, B10I016AA, B10I016
B10I031, B10I039, B10I041, B10I043
B10I045, B10I046, B10I049, B10I050
B10I051, B10J001, B10J002, B10J003
B10J010, B10J011, B10J013, B10J016
B10J020, B10J021, B10J021A, B10J022
B10J024, B10J026, B10J027, B10J027A
B10J034, B10J037, B10J042, B10J043
B10J045, B10J045A, B10J045B, B10J046
B10J046A, B10J060, B10J060A, B10J062
B10J064, B10K004, B10K007, B10L023
B10L030, B10L030A, B10L056A

Fraction

Volatiles, Polynuclear Aromatic
Hydrocarbons, Chlorinated
Pesticides, Polychlorinated
Biphenyls, Metals, Hexavalent
Chromium, TPH as Gasoline, TPH
as Extractables

The data validation was performed under EPA Level II guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, June 2008
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004

Please feel free to contact us if you have any questions.

Sincerely,

Andrew Kong
Project Manager

LDC #24959 (Bowyer Environmental, Huntington Beach, CA / Sunkist Ontario Site)

LDC	SDG#	DATE REC'D	(1) DATE DUE	VOA (8260B)		PAHs (8270C -SIM)		Pest. (8081A)		PCBs (8082)		Metals & Hg (SW846) (6010B)		STLC Pb (6010B)		TPH-G (8015M)		TPH-E (8015M)		Cr(VI) (7196A)																			
				W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S				
Matrix: Water/Soil																																							
A	B10G049	02/22/11	03/01/11	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2		
B	B10G051	02/22/11	03/01/11	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
C	B10G052	02/22/11	03/01/11	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
D	B10G052A	02/22/11	03/01/11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
E	B10G056	02/22/11	03/01/11	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
F	B10H005	02/22/11	03/01/11	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
G	B10H006	02/22/11	03/01/11	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2
H	B10H011	02/22/11	03/01/11	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2
I	B10H011A	02/22/11	03/01/11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
J	B10H021	02/22/11	03/01/11	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
K	B10H023	02/22/11	03/01/11	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
L	B10H029	02/22/11	03/01/11	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
M	B10H029A	02/22/11	03/01/11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
N	B10H030	02/22/11	03/01/11	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2
O	B10H031	02/22/11	03/01/11	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
P	B10H035	02/22/11	03/01/11	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7	0	7
Q	B10H039	02/22/11	03/01/11	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
R	B10H047	02/22/11	03/01/11	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
S	B10I005	02/22/11	03/01/11	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
T	B10I007	02/22/11	03/01/11	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5	0	5
U	B10I010	02/22/11	03/01/11	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2
V	B10I013	02/22/11	03/01/11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
W	B10I016AA	02/22/11	03/01/11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
X	B10I016	02/22/11	03/01/11	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
Y	B10I031	02/22/11	03/01/11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Z	B10I039	02/22/11	03/01/11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total				0	34	0	34	0	34	0	34	0	34	0	34	0	34	0	34	0	34	0	34	0	34	0	34	0	34	0	34	0	34	0	34	0	34	0	34

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not include MS/MSD, and DUPS

LDC #24960 (Bowyer Environmental, Huntington Beach, CA / Sunkist Ontario Site)

LDC	SDG#	DATE REC'D	(1) DATE DUE	VOA (8260B)		PAHs (8270C -SIM)		Pest. (8081A)		PCBs (8082)		Metals & Hg (SW846)		TPH-G (8015M)		TPH-E (8015M)		W S		W S		W S		W S		W S		W S		
				W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W
Matrix: Water/Soil																														
A	B10I041	02/22/11	03/01/11	0	1	0	1	0	1	0	2	0	1	0	1	0	1	0	1											
B	B10I043	02/22/11	03/01/11	-	-	-	-	-	-	0	1	-	-	-	-	-	-	-												
C	B10I045	02/22/11	03/01/11	-	-	-	-	-	-	0	1	-	-	-	-	-	-	-												
D	B10I046	02/22/11	03/01/11	-	-	-	-	-	-	0	1	-	-	-	-	-	-	-												
E	B10I049	02/22/11	03/01/11	-	-	-	-	-	-	0	2	-	-	-	-	-	-	-												
F	B10I050	02/22/11	03/01/11	0	1	0	1	0	1	0	2	0	1	0	1	0	1	0	1											
G	B10I051	02/22/11	03/01/11	-	-	-	-	-	-	0	2	-	-	-	-	-	-	-												
H	B10J001	02/22/11	03/01/11	-	-	-	-	-	-	0	2	-	-	-	-	-	-	-												
I	B10J002	02/22/11	03/01/11	-	-	-	-	-	-	0	2	-	-	-	-	-	-	-												
J	B10J003	02/22/11	03/01/11	-	-	-	-	-	-	0	1	-	-	-	-	-	-	-												
K	B10J010	02/22/11	03/01/11	-	-	-	-	-	-	0	2	-	-	-	-	-	-	-												
L	B10J011	02/22/11	03/01/11	-	-	-	-	-	-	0	10	-	-	-	-	-	-	-												
M	B10J013	02/22/11	03/01/11	-	-	-	-	-	-	0	2	-	-	-	-	-	-	-												
N	B10J016	02/22/11	03/01/11	-	-	-	-	-	-	0	2	-	-	-	-	-	-	-												
O	B10J020	02/22/11	03/01/11	-	-	-	-	-	-	0	1	-	-	-	-	-	-	-												
P	B10J021	02/22/11	03/01/11	-	-	-	-	-	-	0	1	-	-	-	-	-	-	-												
Q	B10J021A	02/22/11	03/01/11	0	2	0	2	0	2	0	2	0	2	0	2	0	2	0	2											
R	B10J022	02/22/11	03/01/11	-	-	-	-	-	-	0	3	-	-	-	-	-	-	-												
S	B10J024	02/22/11	03/01/11	-	-	-	-	-	-	0	2	-	-	-	-	-	-	-												
T	B10J026	02/22/11	03/01/11	-	-	-	-	-	-	0	1	-	-	-	-	-	-	-												
U	B10J027	02/22/11	03/01/11	-	-	-	-	-	-	0	1	-	-	-	-	-	-	-												
V	B10J027A	02/22/11	03/01/11	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1											
W	B10J034	02/22/11	03/01/11	-	-	-	-	-	-	0	3	-	-	-	-	-	-	-												
X	B10J037	02/22/11	03/01/11	-	-	-	-	-	-	0	18	-	-	-	-	-	-	-												
Y	B10J042	02/22/11	03/01/11	-	-	-	-	-	-	0	1	-	-	-	-	-	-	-												
Z	B10J043	02/22/11	03/01/11	-	-	-	-	-	-	0	2	-	-	-	-	-	-	-												
Total																														
T/AK				0	5	0	5	0	5	0	5	0	68	0	5	0	5	0	5	0	0	0	0	0	0	0	0	0	0	98

Shaded cells indicate Level IV validation (all other cells are Level III validation). These sample counts do not include MS/MSD, and DUPs

DATA VALIDATION REPORT

Analytical data is the basis for evaluating the environmental conditions present at the Sunkist Ontario Site. It is essential that the data be accurate and reflective of actual conditions.

During the July through December 2010 sampling event, 212 original soil samples were collected. All data underwent a Level II review to ensure that data quality was acceptable for decision-making purposes. This process identified limitations for use of the data, and/or data that should not be used for decision-making purposes. The quality of data was assessed and any necessary qualifiers were applied following the *United States Environmental Protection Agency (USEPA) Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (June 2008) and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (October 2004).

Laboratory Data Consultants, Inc. (LDC) validated/reviewed data for compliance with the following QA/QC project and/or method-prescribed criteria (described later in this section):

- **Holding Time and Preservation:** The period of time between collection of the sample, preparation/analysis, and acceptable temperature range of the sample. Analyses performed for this project have method-prescribed holding times and temperature ranges.
- **Blank Samples:** The preparation and analysis of reagent (contaminant-free) water. Blank samples for this investigation included method blanks. Detections in a blank sample indicate laboratory and/or transportation or field contamination.
- **Spike Samples:** The preparation and analysis of an environmental sample or a sample of reagent water spiked with a subset of target

compounds at known concentrations. The results of the spike analysis measure laboratory accuracy in the reagent sample, and results from the environmental sample spike measure potential interferences from the matrix.

- Surrogate Spikes: The addition of compounds similar to target compounds of interest that are added to sample aliquots for organic analysis. Surrogate spikes measure possible interference from the sample matrix for the analysis of target compounds.
- Duplicate Samples: The preparation and analysis of an additional aliquot of the sample. The results from duplicate analysis measure potential heterogeneity of contaminants in the sample.

Standard qualifiers that may be applied during the review process are as follows:

- J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample;
- U: The analyte was not detected above the reported sample quantitation limit;
- UJ: The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximate and may or may not have represented the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample;
- R: The sample results were rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte could not be verified.

Holding Time and Preservation

The EPA has established the maximum holding time that can elapse between preparation and analysis of samples. The EPA has also defined the acceptable temperature range at which samples must be stored to

maintain sample preservation. Holding times and sample temperatures extending beyond the EPA maximum can negatively affect sample integrity (e.g., loss of volatile compounds, biodegradation) and are qualified depending on the severity of the exceedance and compounds of concern.

Each of the sample analysis results was reviewed for compliance with the method-prescribed preparation and analysis holding times. None of the samples were analyzed outside of the maximum allowable holding time. All samples collected were received at the laboratory in within the proper temperature range.

Blank Samples

The purpose of a blank sample is to determine the presence and magnitude of contamination resulting from laboratory, shipping, or other sample-handling activities. Blank samples are analyzed and evaluated for detections of target compounds. If target compounds are detected in a blank sample that was initially intended to be contaminant-free, these detections indicate some element of the sample collection, transportation, or analysis activities has introduced contaminants not present in the original environmental sample aliquot. If target compounds are detected in a blank sample, then all associated data must be carefully evaluated to determine whether those results have been similarly impacted or the blank problem is an isolated occurrence not representative of other data.

No detected results were found in the method blanks for this sampling event.

No field QC samples were collected for this sampling event.

Spike Samples

A spike sample is a QC sample that is prepared and analyzed by the laboratory. The laboratory prepares, analyzes, and reports spike sample results to demonstrate their ability to properly analyze, detect, and quantify target compounds. A spike sample result is typically reported as the amount of compound detected divided by the amount spiked into the sample and is commonly referred to as percent recovery. The percent

recovery is then compared to an established limit range. The two types of spike samples analyzed with the project samples were matrix spikes and blank spikes.

1. Matrix spike (MS) samples consist of an aliquot of an environmental sample that is spiked with known concentrations of a subset of target compounds. A matrix spike duplicate (MSD) sample is a second sample prepared and analyzed with the MS sample. MS samples are used to monitor potential interference from the sample matrix for target compounds. A low MS recovery may indicate low-biased sample results; a high MS recovery may indicate high-biased sample results.
2. Blank spike samples, which are commonly referred to as laboratory control samples (LCS), are an aliquot of reagent water that is spiked with known concentrations of a subset of target compounds. The LCS is used to monitor laboratory accuracy without the bias of a sample matrix. A laboratory control sample duplicate (LCSD) is a second LCS that is prepared with the first LCS. LCS and LCSD recoveries outside of acceptable limits may indicate poor laboratory accuracy. LCSD relative percent differences (RPD) outside of acceptable limits may indicate poor precision.

All of the MS/MSD recoveries and RPDs were within acceptable limits.

For method 8015M, two LCS/LCSD recoveries were not within acceptable limits. Data required qualification in one data package.

The LCS/LCSD outliers and data qualification results are listed in Table C-1.

Surrogate Spikes

A surrogate spike is chemically similar to the target compounds and it is only used in organic analyses. A surrogate spike is used to assess interference from the sample matrix during the analysis. A surrogate is used to quantitate target compounds while accounting for any possible interference from the sample matrix. Surrogate spike results are typically reported in terms of percent recovery, based on the concentration of

surrogate detected divided by the known amount of surrogate added to the sample aliquot.

Surrogate recoveries were compared to the laboratory-generated limits of acceptance. All surrogate recoveries were within acceptable limits for all samples.

Overall Assessment

All data can be used for decision-making purposes; however, the limitations indicated by the applied qualifier should be considered when using the data.

Sample results that were found to be rejected (R) are unusable for all purposes. Sample results that were found to be estimated (J) are usable for limited purposes only. All other results are considered valid and usable for all purposes.

The quality of the data generated during the July through December 2010 sampling event at the Sunkist Ontario Site is acceptable for the preparation of technically defensible documents.

Blank Spike Recoveries & RPDs Outside of Acceptable Limits
Sunkist Ontario Site

Lab Package	LCS ID	Associated Sample	Method	Compound	LCS (% R)	LCSD (% R)	Limit (%)	RPD	RPD Limit	LDC Qualifier
B10G052	AG31-GSLCS/D	B-5-1	8015M	TPH-G	119	121	80-120	2	≤20	J detects
B10G056	AG31-GSLCS/D	L-13-3	8015M	TPH-G	119	121	80-120	2	≤20	NA, ND

Key:

J = Detected results are estimated

RPD = Relative percent difference

NA = No qualified result, result was high biased and sample was nondetected

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 7/26/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	Δ	
VI.	Surrogate spikes	Δ	
VII.	Matrix spike/Matrix spike duplicates	N	client specified
VIII.	Laboratory control samples	A	les 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	Δ	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

soil

1	A-4-1	11	0727-MB	21		31	
2	A-5-1	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 7/27/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	Δ	
VI.	Surrogate spikes	Δ	
VII.	Matrix spike/Matrix spike duplicates	N	client specified
VIII.	Laboratory control samples	A	see ID
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

SOIL

1	A-5-2	11	0727 - VOCs	21		31
2		12		22		32
3		13		23		33
4		14		24		34
5		15		25		35
6		16		26		36
7		17		27		37
8		18		28		38
9		19		29		39
10		20		30		40

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7 28 10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	CS
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

AR 20:2

1	B-5-1	11	21	31
2		12	22	32
3		13	23	33
4		14	24	34
5		15	25	35
6		16	26	36
7		17	27	37
8		18	28	38
9		19	29	39
10		20	30	40

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>7/29/10</u>
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	<u>LCS/D</u>
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	L-13-3	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/4/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-5-2	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/5/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LC S / D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-4-1	S	11		21		31
2	B-4-2	↓	12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

LDC #: 24959H1

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H011

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *da*

2nd Reviewer: *W*

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8 9 10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LOS 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SP-ASP-1	↘	11		21		31	
2	SP-ASP-2	↓	12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

LDC #: 24959J1

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H021

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8 13 10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	<i>[Handwritten mark]</i>	
VIII.	Laboratory control samples	A	LC5 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	<i>[Handwritten mark]</i>	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	<i>[Handwritten mark]</i>	
XVII.	Field blanks	<i>[Handwritten mark]</i>	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	E-4-1	11	21	31
2		12	22	32
3		13	23	33
4		14	24	34
5		15	25	35
6		16	26	36
7		17	27	37
8		18	28	38
9		19	29	39
10		20	30	40

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8 16 10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-4-2	11	21	31
2		12	22	32
3		13	23	33
4		14	24	34
5		15	25	35
6		16	26	36
7		17	27	37
8		18	28	38
9		19	29	39
10		20	30	40

LDC #: 24959L1

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H029

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: 

2nd Reviewer: 

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/18/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCC/D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SP-11-C-1-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/19/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCSD
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-23-2	S	11	21	31
2	F-5-1	↓	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/20/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	E-5-1	5	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/24/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS / D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	F-4-1	5	11	21	31
2	D-5-1		12	22	32
3	D-5-2		13	23	33
4	D-4-1		14	24	34
5	D-4-2		15	25	35
6	D-5-3		16	26	36
7	D-5-4		17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24959Q1

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H039

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *[Signature]*
2nd Reviewer: *[Signature]*

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/25/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	6-3/10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	D-5-5	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8 31 10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LC = 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	D-5-6	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/2/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	C-1-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24959T1

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/10

SDG #: B10I007

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: 2nd Reviewer:

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/3/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	CCS / D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SPC-A-1	5	11	21	31
2	SPC-A-2		12	22	32
3	SPC-B-1		13	23	33
4	SPC-C-1		14	24	34
5	SPC-CC-1		15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9 8 10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS / D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	L-21-1	J	11	21	31
2	L-21-2	t	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/10/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	CCS/D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	L-11-2	S	11		21		31
2			12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>9/23/10</u>
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	<u>LCS / D</u>
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	D-1-1	Σ	11		21		31
2			12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

LDC #: 24960F1

VALIDATION COMPLETENESS WORKSHEET

Date: 2/24/11

SDG #: B101050

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/29/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	CCS 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	D-2-1&C-2-1 Comp.	5	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10 / 11 / 10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCSD
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-3-1	S	11	21	31
2	E-3-2	t	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 10/15/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	Δ	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	F-3-1	<i>u</i>	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/26/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-62-2	S	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

LDC #: 24964L1

VALIDATION COMPLETENESS WORKSHEET

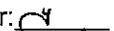
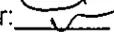
Date: 2/24/11

SDG #: B10L023

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: 2nd Reviewer: 

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/13/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	J	
VIII.	Laboratory control samples	A	12/13/10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	J	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	J	
XVII.	Field blanks	J	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	B-15-C1	S	11	21	31
2	A-6-1	J	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/15/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 6D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	B-3-1	5	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24964N1

VALIDATION COMPLETENESS WORKSHEET

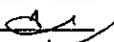
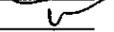
SDG #: B10L030A

Level II

Laboratory: ABC Environmental Laboratories

Date: 2/24/11

Page: 1 of 1

Reviewer: 2nd Reviewer: 

METHOD: GC/MS Volatiles (EPA SW 846 Method 8260B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/15/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	4/23/10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	L-12A-1	5	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 7/26/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	Δ	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	client specified
VIII.	Laboratory control samples	A	used
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	Δ	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples: SOIL

1†	A-4-1	11	0728-SVOCs	21	31
2	A-5-1	12		22	32
3		13		23	33
4		14		24	34
5		15		25	35
6		16		26	36
7		17		27	37
8		18		28	38
9		19		29	39
10		20		30	40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/27/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	client specified
VIII.	Laboratory control samples	A	ics 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples: SDIL

1	A-5-2	11	0728-SVDCS	21		31	
2		12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7 / 28 / 10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	CS
VIII.	Laboratory control samples	A	LCSD
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-5-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/29/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	6/23/10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-13-3	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/4/10
II.	GC/MS instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-5-2	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24959G2b

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H006

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/5/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-4-1	S	11		21		31
2	B-4-2	f	12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/9/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SP-ASP-1	S	11	21	31
2	SP-ASP-2	↓	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8 13 10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	UCC / D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-4-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8 / 16 / 10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes		
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LC 5 / 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-4-2	3	11		21		31
2			12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/18/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LC510
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SP-11-C-1-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/19/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	CCS 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-23-2	S	11		21		31
2	F-5-1	N	12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/20/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS / D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-5-1	S	11		21		31
2			12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/24/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS / D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	F-4-1	5	11	21	31
2	D-5-1		12	22	32
3	D-5-2		13	23	33
4	D-4-1		14	24	34
5	D-4-2		15	25	35
6	D-5-3		16	26	36
7	D-5-4		17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8 25 10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	CCS ID
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	D-5-5	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/31/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	D-5-6	S	11		21		31
2			12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/2/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	CCS 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	C-1-1	5	11		21		31
2			12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>08/9/3/10</u>
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	<u>4/5/10</u>
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SPC-A-1	<u>5</u>	11	21	31
2	SPC-A-2	↓	12	22	32
3	SPC-B-1		13	23	33
4	SPC-C-1		14	24	34
5	SPC-CC-1		15	25	35
6			16	26	36
7		17	27	37	
8		18	28	38	
9		19	29	39	
10		20	30	40	

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/8/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 15
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	L-21-1	S	11	21	31
2	L-21-2	L	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/10/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LC510
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	L-11-2	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/23/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS / D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	D-1-1	3	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/29/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	D-2-1&C-2-1 Comp. S	11		21		31	
2		12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/11/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks		
VI.	Surrogate spikes		
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	CCS/D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-3-1	5	11		21		31	
2	E-3-2	4	12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/15/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	F-3-1	W	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/20/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-62-2	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12 / 13 / 10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	J	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	J	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-15-C1	S	11		21		31
2	A-6-1	J	12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/15/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-3-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC/MS Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8270C-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/15/10
II.	GC/MS Instrument performance check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	60510
IX.	Regional Quality Assurance and Quality Control	N	
X.	Internal standards	N	
XI.	Target compound identification	N	
XII.	Compound quantitation/CRQLs	N	
XIII.	Tentatively identified compounds (TICs)	N	
XIV.	System performance	N	
XV.	Overall assessment of data	A	
XVI.	Field duplicates	N	
XVII.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-12A-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24959A3a

VALIDATION COMPLETENESS WORKSHEET

SDG #: B10G049

Level II

Laboratory: ABC Environmental Laboratories

Date: 2/23/11

Page: 1 of 1

Reviewer: FJ

2nd Reviewer: Δ

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 1/26/10
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	Δ	
VI.	Surrogate spikes	Δ	
VII.	Matrix spike/Matrix spike duplicates	Δ	
VIII.	Laboratory control samples	A	LC5
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	Δ	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

SOIL

1 [†]	A-4-1	11	0728-PES-5	21		31	
2 [†]	A-5-1	12		22		32	
3	A-5-1MS	13		23		33	
4	A-5-1MSD	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/27/10
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LC>
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: SOIL

1	A-5-2	11	0728-PFS-5	21	31
2	A-5-2MS	12		22	32
3	A-5-2MSD	13		23	33
4		14		24	34
5		15		25	35
6		16		26	36
7		17		27	37
8		18		28	38
9		19		29	39
10		20		30	40

LDC #: 24959C3a

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10G052

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7 28 10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS / D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-5-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7 / 29 / 10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LC5 / 0
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-13-3	5	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24959F3a

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/71

SDG #: B10H005

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: CA

2nd Reviewer: W

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/4/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	J	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	J	
XV.	Field blanks	J	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	B-5-2	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24959G3a

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H006

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *AA*

2nd Reviewer: *W*

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/5/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	U	
VIII.	Laboratory control samples	A	600/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	U	
XV.	Field blanks	U	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-4-1	11	21	31
2	B-4-2	12	22	32
3		13	23	33
4		14	24	34
5		15	25	35
6		16	26	36
7		17	27	37
8		18	28	38
9		19	29	39
10		20	30	40

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/9/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCSD
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SP-ASP-1	5	11	21	31
2	SP-ASP-2	↓	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24959J3a

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H021

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: 2nd Reviewer:

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/13/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	CCS ID
IX.	Regional quality assurance and quality control	N	
Xa.	Floril cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	E-4-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24959K3a

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H023

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *ad*2nd Reviewer: *[Signature]***METHOD:** GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/16/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	CCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	E-4-2	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24959L3a

VALIDATION COMPLETENESS WORKSHEET

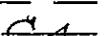
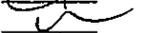
Date: 2/23/11

SDG #: B10H029

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: 2nd Reviewer: **METHOD:** GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/18/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	CCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SP-11-C-1-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/19/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florasil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-23-2	S	11	21	31
2	F-5-1	↓	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/20/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	CCS / N
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-5-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 2/24/11
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisol cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	F-4-1	S	11	21	31
2	D-5-1		12	22	32
3	D-5-2		13	23	33
4	D-4-1		14	24	34
5	D-4-2		15	25	35
6	D-5-3		16	26	36
7	D-5-4		17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/25/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	D-5-5	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24959R3a

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H047

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: 2nd Reviewer: **METHOD:** GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/31/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	D-5-6	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/2/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	C-1-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24959T3a

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10I007

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: CS

2nd Reviewer: [Signature]

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/8/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	6/25/10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SPC-A-1	S	11	21	31
2	SPC-A-2		12	22	32
3	SPC-B-1		13	23	33
4	SPC-C-1		14	24	34
5	SPC-CC-1		15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/8/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	see 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-21-1	3	11	21	31
2	L-21-2	4	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24959X3a

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10I016

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/10/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-11-2	5	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24960A3a

VALIDATION COMPLETENESS WORKSHEET

Date: 2/24/11

SDG #: B10I041

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: AA2nd Reviewer: W

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/23/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	D-1-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24960F3a

VALIDATION COMPLETENESS WORKSHEET

Date: 2/24/11

SDG #: B10I050

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *[Signature]*
2nd Reviewer: *[Signature]*

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/29/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LC = 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	D-2-1&C-2-1 Comp.	✓	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24960Q3a

VALIDATION COMPLETENESS WORKSHEET

Date: 2/24/11

SDG #: B10J021A

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/11/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-3-1	11	21	31
2	E-3-2	12	22	32
3		13	23	33
4		14	24	34
5		15	25	35
6		16	26	36
7		17	27	37
8		18	28	38
9		19	29	39
10		20	30	40

LDC #: 24960V3a

VALIDATION COMPLETENESS WORKSHEET

Date: 2/24/11

SDG #: B10J027A

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: 2nd Reviewer: **METHOD:** GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/15/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	F-3-1	W	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>10/26/10</u>
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	<u>LCS/D</u>
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-62-2	11	21	31
2		12	22	32
3		13	23	33
4		14	24	34
5		15	25	35
6		16	26	36
7		17	27	37
8		18	28	38
9		19	29	39
10		20	30	40

LDC #: 24964L3a

VALIDATION COMPLETENESS WORKSHEET

Date: 2/24/11

SDG #: B10L023

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: CA2nd Reviewer: W**METHOD:** GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/13/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LC510
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	B-15-C1	S	11	21	31
2	A-6-1	↓	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>12/15/10</u>
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	<u>LCS 10</u>
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-3-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24964N3a

VALIDATION COMPLETENESS WORKSHEET

Date: 2/24/11

SDG #: B10L030A

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *CA*
2nd Reviewer: *W*

METHOD: GC Chlorinated Pesticides (EPA SW 846 Method 8081A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/15/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	CCS (D)
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	L-12A-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/26/11
II.	GC/ECD Instrument Performance Check	NA	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	client specified
VIII.	Laboratory control samples	A	ics IP
IX.	Regional quality assurance and quality control	N	
Xa.	Floril cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

SOIL

1	A-4-1	11	0728-PCBS	21	31
2	A-5-1	12		22	32
3		13		23	33
4		14		24	34
5		15		25	35
6		16		26	36
7		17		27	37
8		18		28	38
9		19		29	39
10		20		30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 7/27/10
II.	GC/ECD Instrument Performance Check	N	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	Δ	
VI.	Surrogate spikes	Δ	
VII.	Matrix spike/Matrix spike duplicates	N	client specified
VIII.	Laboratory control samples	A	Las 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	A-5-2	11	0728-PEB>	21	31
2		12		22	32
3		13		23	33
4		14		24	34
5		15		25	35
6		16		26	36
7		17		27	37
8		18		28	38
9		19		29	39
10		20		30	40

LDC #: 24959C3b

VALIDATION COMPLETENESS WORKSHEET

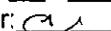
Date: 2/28/11

SDG #: B10G052

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: 

2nd Reviewer: 

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/28/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	CS
VIII.	Laboratory control samples	A	LC5/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-5-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24959E3b

VALIDATION COMPLETENESS WORKSHEET

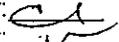
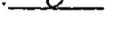
Date: 2/23/11

SDG #: B10G056

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: 2nd Reviewer: **METHOD:** GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/29/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS / D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisl cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	L-13-3	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/4/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS / D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-5-2	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24959G3b

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H006

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: CA2nd Reviewer: W

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/5/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	4-10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	B-4-1	S	11	21	31
2	B-4-2	N	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24959H3b

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H011

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *[Signature]*
2nd Reviewer: *[Signature]*

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/9/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	see M
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SP-ASP-1	5	11	21	31
2	SP-ASP-2	↓	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24959J3b

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H021

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: AI2nd Reviewer: [Signature]**METHOD:** GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/13/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	CCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	E-4-1	S	11		21		31
2			12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/16/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-4-2	5	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8 18 10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS (D)
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SP-11-C-1-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/19/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	CCS / D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	L-23-2	S	11	21	31
2	F-5-1	t	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 2495903b

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H031

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/20/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	605 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	E-5-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8 24 10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	✓	
VIII.	Laboratory control samples	A	LC5 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	✓	
XV.	Field blanks	✓	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	F-4-1	S	11	21	31
2	D-5-1	↓	12	22	32
3	D-5-2		13	23	33
4	D-4-1		14	24	34
5	D-4-2		15	25	35
6	D-5-3		16	26	36
7	D-5-4		17	27	37
8			18	28	38
9		19	29	39	
10		20	30	40	

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/25/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	D-5-5	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/31/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS (0)
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	D-5-6	S	11		21		31
2			12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/2/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	UCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-64-1&2	S	11		21		31	
2	C-1-1	↓	12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

LDC #: 24959T3b

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10I007

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: 2nd Reviewer: 

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/3/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	6/25/10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisol cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable

N = Not provided/applicable

SW = See worksheet

ND = No compounds detected

R = Rinsate

FB = Field blank

D = Duplicate

TB = Trip blank

EB = Equipment blank

Validated Samples:

All soil

1	SPC-A-1	11	SPC-A-11	21	SPC-C-4	31	
2	SPC-A-2	12	SPC-B-1	22	SPC-C-5	32	
3	SPC-A-3	13	SPC-B-2	23	SPC-C-6	33	
4	SPC-A-4	14	SPC-B-3	24	SPC-CC-1	34	
5	SPC-A-5	15	SPC-B-4	25		35	
6	SPC-A-6	16	SPC-B-5	26		36	
7	SPC-A-7	17	SPC-B-6	27		37	
8	SPC-A-8	18	SPC-C-1	28		38	
9	SPC-A-9	19	SPC-C-2	29		39	
10	SPC-A-10	20	SPC-C-3	30		40	

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/8/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-21-1	S	11	21	31
2	L-21-2		12	22	32
3	SPC-CC-2		13	23	33
4	SPC-CC-3		14	24	34
5	SPC-CC-4		15	25	35
6	SPC-CC-5		16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24959V3b

VALIDATION COMPLETENESS WORKSHEET

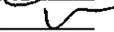
Date: 2/23/11

SDG #: B101013

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: 2nd Reviewer: 

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/9/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	CCSID
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SPC-CC-6	S	11	21	31
2	SPC-CC-7	L	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/10/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-11-1&3 Comp.	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24959X3b

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B101016

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: SL2nd Reviewer: W

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/10/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	D	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	6-3-10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	L-11-2	3	11		21		31
2	SPC-CC-8	1	12		22		32
3	SPC-CC-9	1	13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

LDC #: 24959Y3b

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B101031

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: CA2nd Reviewer: W**METHOD:** GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/20/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS / D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	L64-F1-5.0	S	11	21	31
2	L64-SW1-2.5		12	22	32
3	L64-SW2-2.5		13	23	33
4	L64-SW3-2.5		14	24	34
5	L64-SW4-2.5		15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/22/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	✓	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	✓	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SPC-CC-10	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24960A3b

VALIDATION COMPLETENESS WORKSHEET

Date: 2/24/11

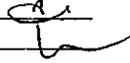
SDG #: B10I041

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: A

2nd Reviewer: 

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 9/23/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	Δ	LCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	Δ	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SPC-CC-11	S	11	21	31
2	D-1-1	↓	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/24/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SPC-CC-12	S	11		21		31
2			12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9 / 25 / 10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisol cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SPC-CC-13	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/27/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	CCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	SPC-CC-14	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>9/28/10</u>
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	<u>LLS/10</u>
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SPC-CC-15	S	11	21	31
2	SPC-CC-16	↓	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/29/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	✓	
VIII.	Laboratory control samples	A	CCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	✓	
XV.	Field blanks	✓	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	SPC-CC-17	Σ	11	21	31
2	D-2-1&C-2-1 Comp.	↓	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/30/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	J	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	J	
XV.	Field blanks	J	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SPC-CC-18	5	11		21		31
2	SPC-CC-19	1	12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/1/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LC510
IX.	Regional quality assurance and quality control	N	
Xa.	Florasil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SPC-CC-20	S	11		21		31
2	SPC-CC-21	↓	12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

LDC #: 2496013b

VALIDATION COMPLETENESS WORKSHEET

Date: 2/24/11

SDG #: B10J002

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: [Signature]2nd Reviewer: [Signature]

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/2/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	CCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SPC-CC-22	S	11	21	31
2	SPC-CC-23	+	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/4/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS / N
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SPC-CC-24	<i>S</i>	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10 / 5 / 10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	SPC-CC-25	S	11		21		31
2	SPC-CC-26	↓	12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/5/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisol cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SP-ASP-3	S	11	21	31
2	SP-ASP-4		12	22	32
3	SP-ASP-5		13	23	33
4	SP-ASP-6		14	24	34
5	SP-ASP-7		15	25	35
6	SP-ASP-8		16	26	36
7	SP-ASP-9		17	27	37
8	SP-ASP-10		18	28	38
9	SP-ASP-11		19	29	39
10	SP-ASP-12		20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/6/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	CCS/10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SPC-CC-27	S	11		21		31	
2	SPC-CC-28	↓	12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/8/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SPC-CC-29	S	11		21		31	
2	SPC-CC-30	↓	12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/9/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SPC-CC-31	5	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/11/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS / D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SPC-CC-32	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/11/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-3-1	5	11		21		31
2	E-3-2	↓	12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10 / 12 / 10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	CCS / N
IX.	Regional quality assurance and quality control	N	
Xa.	Florasil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet
ND = No compounds detected
R = Rinsate
FB = Field blank
D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SPC-CC-33	N	11		21		31
2	SPC-CC-34		12		22		32
3	SPC-CC-35		13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10 / 13 / 10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SPC-CC-36	5	11		21		31
2	SPC-CC-37	4	12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/14/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LC5/10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SPC-CC-38	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/15/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LC5/10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SPC-CC-39	5	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/15/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	CCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	F-3-1	w	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/19/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	KCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SPC-CC-40	S	11		21		31
2	SPC-CC-41	↓	12		22		32
3	SPC-CC-42	↓	13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/20/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

all soil

1	B15-A-1A	11	B15-G	21	31
2	B15-A-1B	12	B15-H	22	32
3	B15-A-2 X	13	B15-I-A	23	33
4	B15-A-3A	14	B15-I-B	24	34
5	B15-A-3B	15	B15-I-C	25	35
6	B15-A-4	16	B15-J	26	36
7	B15-A-5	17	B15-K	27	37
8	B15-D	18	WW-A	28	38
9	B15-E	19		29	39
10	B15-F	20		30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10 22 10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SPC-CC-43	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24960Z3b

VALIDATION COMPLETENESS WORKSHEET

Date: 2/24/11

SDG #: B10J043

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: ae2nd Reviewer: W**METHOD:** GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10 / 25 / 10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SPC-CC-44	5	11		21		31	
2	SPC-CC-45	↓	12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/26/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	SPC-CC-46	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/20/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCs / D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-62-2	S	11	21	31
2	TS-1A	↓	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/26/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCR 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-62-1	S	11	21	31
2	L-62-3	↓	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/27/09
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SPC-CC-47	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24964E3b

VALIDATION COMPLETENESS WORKSHEET

SDG #: B10J046A

Level II

Laboratory: ABC Environmental Laboratories

Date: 2/27/10

Page: 1 of 1

Reviewer: *[Signature]*2nd Reviewer: *[Signature]*

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/27/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
Xa.	Floril cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

all soil

1	B12-A	11	B12-I	21	B12-S	31	
2	B12-B	12	B12-J	22	B12-T	32	
3	B12-C	13	B12-K	23	B12-U	33	
4	B12-D	14	B12-L	24	B12-E-1MS	34	
5	B12-E-1	15	B12-M	25	B12-E-1MSD	35	
6	B12-E-2	16	B12-N	26		36	
7	B12-F	17	B12-O	27		37	
8	B12-G	18	B12-P	28		38	
9	B12-H-1	19	B12-Q	29		39	
10	B12-H-2	20	B12-R	30		40	

LDC #: 24964F3b

VALIDATION COMPLETENESS WORKSHEET

Date: 2/24/11

SDG #: B10J060

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/28/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCSD
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SPC-CC-48	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/28/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisol cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

All soil

1	B31-A	11	B31-J-1	21	B31-S	31	
2	B31-B	12	B31-J-2	22	B31-T	32	
3	B31-C	13	B31-K	23	B31-U	33	
4	B31-D	14	B31-L	24	B31-V	34	
5	B31-E	15	B31-M	25	B31-W	35	
6	B31-F	16	B31-N	26	B31-X	36	
7	B31-G-1	17	B31-O	27	B31-Y	37	
8	B31-G-2	18	B31-P	28	B31-J-1MS	38	
9	B31-H	19	B31-Q	29	B31-J-1MSD	39	
10	B31-I	20	B31-R	30		40	

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/29/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	U	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	B-54-A	5	11	21	31
2	SPC-CC-49	↓	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24964I3b

VALIDATION COMPLETENESS WORKSHEET

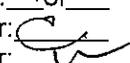
Date: 2/24/11

SDG #: B10J064

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: 
2nd Reviewer: 

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/30/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisol cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	SPC-CC-50	C	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets:

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 11/2/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LC510
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SPC-CC-51	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

LDC #: 24964K3b

VALIDATION COMPLETENESS WORKSHEET

Date: 2/24/11

SDG #: B10K007

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: CA2nd Reviewer: W**METHOD:** GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 11/3/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCSD
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	B12-V	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/13/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-15-C1	5	11	21	31
2	A-6-1	↓	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates:
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS 10
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-3-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/15/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	L-12A-1	S	11	21	31
2	L-12A-2	↓	12	22	32
3	L-12A-3		13	23	33
4	L-12-1		14	24	34
5	L-12-2		15	25	35
6			16	26	36
7		17	27	37	
8		18	28	38	
9		19	29	39	
10		20	30	40	

METHOD: GC Polychlorinated Biphenyls (EPA SW 846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/30/10
II.	GC/ECD Instrument Performance Check	-	
III.	Initial calibration	N	
IV.	Continuing calibration/ICV	N	
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	605/0
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	AGB-12	5	11	21	31
2	FLI-B12		12	22	32
3	BSW-B12		13	23	33
4	LD-L1		14	24	34
5	B-15		15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/26/10
II.	ICP/MS Tune	N	Not Utilized
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	Client Specified
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS / D
IX.	Internal Standard (ICP-MS)	N	Not Utilized
X.	Furnace Atomic Absorption QC	N	↓ ↓
XI.	ICP Serial Dilution	N	Not reviewed for Level II
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

All soil

1	A-4-1	11		21		31	
2	A-5-1	12		22		32	
3	MB	13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 24959B4

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10G051

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/27/10
II.	ICP/MS Tune	N	Not utilized
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} Client Specific
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS/D
IX.	Internal Standard (ICP-MS)	N	Not utilized
X.	Furnace Atomic Absorption QC	N	↓ ↓
XI.	ICP Serial Dilution	N	Not reviewed for Level II
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

All good

1	A-5-2	11		21		31	
2	MS	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>2/28/10</u>
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} <u>Client Specified</u>
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	<u>LCS 10</u>
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-5-1	<u>S</u>	11		21		31	
2	<u>ms</u>		12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1	So	Al, (Sb, As, Ba, Be, Cd), Ca, (Cr, Co, Cu), Fe, (Pb) Mg, Mn, (Hg, Ni), K, (Se, Ag), Na, (Ti, V, Zn, Mo), B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻

Analysis Method

ICP	Al, (Sb, As, Ba, Be, Cd), Ca, (Cr, Co, Cu), Fe, (Pb) Mg, Mn, Hg, (Ni) K, (Se, Ag), Na, (Ti, V, Zn, Mo), B, Si, CN ⁻
ICP-MS	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻
GFAA	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻

Comments: Mercury by CVAA if performed

METHOD: STLC Lead (EPA SW 846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7 (28) 10
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} Client Specified
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS / 0
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-5-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/29/10
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	? client specified
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS / D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-13-3	11		21		31	
2		12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: _____

LDC #: 24959F4

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H005

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *[Signature]*2nd Reviewer: *[Signature]*

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/4/10
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} Limit Specified
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS 10
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	B-5-2	S	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1	So	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN'

Comments: Mercury by CVAA if performed

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>8/5/10</u>
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} <u>Client Specified</u>
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	<u>LCS 10</u>
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	B-4-1	<u>S</u>	11		21		31	
2	B-4-2	<u>↓</u>	12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-2	SO	Al, <u>Sb</u> , As, Ba, Be, Cd, Ca, <u>Cr</u> , Co, <u>Cu</u> , Fe, (Pb), Mg, Mn, <u>Hg</u> , Ni, K, <u>Se</u> , Ag, Na, <u>Tl</u> , V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
Analysis Method		
ICP		Al, <u>Sb</u> , As, Ba, Be, Cd, Ca, <u>Cr</u> , Co, <u>Cu</u> , Fe, <u>Pb</u> , Mg, Mn, Hg, <u>Ni</u> , K, <u>Se</u> , Ag, Na, <u>Tl</u> , V, Zn, Mo, B, Si, CN ⁻ ,
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻ ,

Comments: (Mercury by CVAA if performed)

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 8/9/10
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	Δ	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} client specified
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	Δ	see / 10
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	Δ	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SP-ASP-1	5	11		21		31	
2	SP-ASP-2	↓	12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-2	SO	Al, <u>Sb, As, Ba, Be, Cd</u> , Ca, <u>Cr, Co, Cu</u> , Fe, <u>Pb</u> , Mg, Mn, <u>Hg, Ni</u> , K, <u>Se, Ag</u> , Na, <u>Tl, V, Zn, Mo</u> , B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
Analysis Method		
ICP		Al, <u>Sb, As, Ba, Be, Cd</u> , Ca, <u>Cr, Co, Cu</u> , Fe, <u>Pb</u> , Mg, Mn, Hg, <u>Ni</u> , K, <u>Se, Ag</u> , Na, <u>Tl, V, Zn, Mo</u> , B, Si, CN ⁻
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻

Comments: Mercury by CVAA if performed

LDC #: 2495914

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H011A

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

METHOD: STLC Lead (EPA SW 846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/9/10
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} Client Specified
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS 10
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SP-ASP-1	S	11		21		31	
2	SP-ASP-2	J	12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

LDC #: 24959J4

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H021

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 5/18/11
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} cust specified
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-4-1	S	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

LDC #: 24959K4

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H023

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer:

2nd Reviewer:

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/16/10
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	}
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-4-2	S	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/18/10
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} C.S.
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS 10
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SP-11-C-1-1	S	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

METHOD: STLC Lead (EPA SW 846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/18/10
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} Client Specified
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS ID
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SP-11-C-1-1	S	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/19/10
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	C.S.
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS 10
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-23-2	11	21	31
2	F-5-1	12	22	32
3		13	23	33
4		14	24	34
5		15	25	35
6		16	26	36
7		17	27	37
8		18	28	38
9		19	29	39
10		20	30	40

Notes: _____

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-2	SD	Al, <u>Sb</u> , As, Ba, Be, Cd, Ca, <u>Cr</u> , Co, <u>Cu</u> , Fe, <u>Pb</u> , Mg, Mn, <u>Hg</u> , Ni, K, <u>Se</u> , <u>Ag</u> , Na, <u>Tl</u> , <u>V</u> , <u>Zn</u> , <u>Mo</u> , B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
Analysis Method		
ICP		Al, <u>Sb</u> , As, Ba, Be, Cd, Ca, <u>Cr</u> , Co, <u>Cu</u> , Fe, <u>Pb</u> , Mg, Mn, Hg, <u>Ni</u> , K, <u>Se</u> , <u>Ag</u> , Na, <u>Tl</u> , <u>V</u> , <u>Zn</u> , <u>Mo</u> , B, Si, CN'
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN'

 Comments: Mercury by CVAA if performed

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/20/10
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} C.S.
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	6/20/10
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-5-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

VALIDATION FINDINGS WORKSHEET Sample Specific Element Reference

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1	So	Al, <u>Sb</u> , <u>As</u> , Ba, Be, <u>Cd</u> , Ca, <u>Cr</u> , <u>Co</u> , <u>Cu</u> , Fe, <u>Pb</u> , Mg, Mn, <u>Hg</u> , <u>Ni</u> , K, <u>Se</u> , <u>Ag</u> , Na, <u>Tl</u> , V, Zn, <u>Mo</u> , B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN

Analysis Method

ICP	So	Al, <u>Sb</u> , <u>As</u> , Ba, Be, <u>Cd</u> , Ca, <u>Cr</u> , <u>Co</u> , <u>Cu</u> , Fe, <u>Pb</u> , Mg, Mn, <u>Hg</u> , <u>Ni</u> , K, <u>Se</u> , <u>Ag</u> , Na, <u>Tl</u> , V, Zn, <u>Mo</u> , B, Si, CN
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN

Comments: Mercury by CVAA if performed

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8 24 10
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} c.s.
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS/0
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	F-4-1	S	11		21		31	
2	D-5-1		12		22		32	
3	D-5-2		13		23		33	
4	D-4-1		14		24		34	
5	D-4-2		15		25		35	
6	D-5-3		16		26		36	
7	D-5-4		17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

Sample Specific Element Reference

Reviewer: [Signature]
2nd reviewer: [Signature]

All circled elements are applicable to each sample.

Table with columns: Sample ID, Matrix, and Target Analyte List (TAL). Includes analysis methods ICP, ICP-MS, and GFAA.

Comments: Mercury by CVAA if performed

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/25/10
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} C.S.
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS 1D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	D-5-5	S	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET

Sample Specific Element Reference

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1	SO	Al, <u>Sb</u> , As, Ba, Be, <u>Cd</u> , Ca, <u>Cr</u> , Co, Cu, Fe, <u>Pb</u> , Mg, Mn, <u>Hg</u> , Ni, K, <u>Se</u> , <u>Ag</u> , Na, <u>Tl</u> , V, Zn, <u>Mo</u> , B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
Analysis Method		
ICP		Al, <u>Sb</u> , As, Ba, Be, <u>Cd</u> , Ca, <u>Cr</u> , Co, Cu, Fe, <u>Pb</u> , Mg, Mn, <u>Hg</u> , Ni, K, <u>Se</u> , <u>Ag</u> , Na, <u>Tl</u> , V, Zn, <u>Mo</u> , B, Si, CN;
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;

Comments: Mercury by CVAA if performed

LDC #: 24959R4

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H047

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: 
2nd Reviewer: 

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/31/10
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} C.S.
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS (1)
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	D-5-6	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/2/10
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} C.S.
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS ID
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	C-1-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>9/3/10</u>
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} <u>c.s.</u>
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	<u>LCS/D</u>
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	SPC-A-1	<u>S</u>	11		21		31	
2	SPC-A-2		12		22		32	
3	SPC-B-1		13		23		33	
4	SPC-C-1		14		24		34	
5	SPC-CC-1		15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

LDC #: 24959U4

VALIDATION COMPLETENESS WORKSHEET

Date: 9/23/11

SDG #: B10I010

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *[Signature]*
2nd Reviewer: *[Signature]*

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/8/10
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} C.S.
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS 10
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	L-21-1	S	11		21		31	
2	L-21-2	↓	12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>9/10/10</u>
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} <u>e.s.</u>
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	<u>LCS 10</u>
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-11-2	<u>S</u>	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>9/23/10</u>
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	<u>? c.s.</u>
VII.	Duplicate Sample Analysis	N	<u>1</u>
VIII.	Laboratory Control Samples (LCS)	A	<u>LCS 10</u>
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	D-1-1	<u>S</u>	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>9/29/10</u>
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} C.S.
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS 10
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	D-2-1&C-2-1 Comp.	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1	So	Al, <u>Sb</u> , As, Ba, Be, <u>Cd</u> , Ca, <u>Cr</u> , <u>Co</u> , <u>Cu</u> , Fe, <u>Pb</u> , Mg, Mn, <u>Hg</u> , <u>Ni</u> , K, <u>Se</u> , <u>Ag</u> , Na, <u>Tl</u> , V, Zn, <u>Mo</u> , B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
Analysis Method		
ICP		Al, <u>Sb</u> , As, Ba, Be, <u>Cd</u> , Ca, <u>Cr</u> , <u>Co</u> , <u>Cu</u> , Fe, <u>Pb</u> , Mg, Mn, Hg, <u>Ni</u> , K, <u>Se</u> , <u>Ag</u> , Na, <u>Tl</u> , V, Zn, <u>Mo</u> , B, Si, CN;
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;

Comments: (Mercury by CVAA if performed)

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/11/10
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	? c.s.
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS/D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-3-1	S	11		21		31	
2	E-3-2	↓	12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1-2	So	Al, <u>Sb</u> , As, Ba, Be, Cd, Ca, <u>Cr</u> , Co, Cu, Fe, <u>Pb</u> , Mg, Mn, Hg, Ni, K, <u>Se</u> , Ag, Na, <u>Tl</u> , V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
Analysis Method		
ICP		Al, <u>Sb</u> , As, Ba, Be, Cd, Ca, <u>Cr</u> , Co, Cu, Fe, <u>Pb</u> , Mg, Mn, Hg, Ni, K, <u>Se</u> , Ag, Na, <u>Tl</u> , V, Zn, Mo, B, Si, CN ⁻
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁻

Comments: Mercury by CVAA if performed

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>10/15/10</u>
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} C.S.
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	<u>LCS 10</u>
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	Δ	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	F-3-1	<u>W</u>	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

All circled elements are applicable to each sample.

Table with columns: Sample ID, Matrix, Target Analyte List (TAL), Analysis Method. Contains multiple rows of element lists for Sample ID 1 with Matrix W.

Comments: Mercury by CVAA if performed

LDC #: 24964B4

VALIDATION COMPLETENESS WORKSHEET

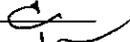
Date: 2/24/11

SDG #: B10J045A

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: 2nd Reviewer: 

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/26/10
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	LCS / D
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	L-62-2	5	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

VALIDATION FINDINGS WORKSHEET

Sample Specific Element Reference

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1	So	Al, <u>(Sb, As, Ba, Be, Cd)</u> Ca, <u>(Cr, Co, Cu)</u> , Fe, <u>(Pb)</u> Mg, Mn, <u>(Hg, Ni)</u> K, <u>(Se, Ag)</u> Na, <u>(Ti, V, Zn, Mo)</u> B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
Analysis Method		
ICP		Al, <u>(Sb, As, Ba, Be, Cd)</u> Ca, <u>(Cr, Co, Cu)</u> , Fe, <u>(Pb)</u> Mg, Mn, Hg, <u>(Ni)</u> K, <u>(Se, Ag)</u> Na, <u>(Ti, V, Zn, Mo)</u> B, Si, CN ⁻ ,
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Ti, V, Zn, Mo, B, Si, CN ⁻ ,

Comments: (Mercury by CVAA if performed)

LDC #: 24964L4

VALIDATION COMPLETENESS WORKSHEET

SDG #: B10L023

Level II

Laboratory: ABC Environmental Laboratories

Date: 2/24/11

Page: 1 of 1

Reviewer: *CA*2nd Reviewer: *W*

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/13/10
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	? C.S.
VII.	Duplicate Sample Analysis	N	1
VIII.	Laboratory Control Samples (LCS)	A	LCS/10
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	B-15-C1	S	11		21		31	
2	A-6-1	↓	12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>12/15/10</u>
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	<u>2</u> C.S.
VII.	Duplicate Sample Analysis	N	<u>1</u>
VIII.	Laboratory Control Samples (LCS)	A	<u>4</u> C.S. / <u>0</u>
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-3-1	<u>S</u>	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET Sample Specific Element Reference

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1	So	Al, Sb , As, Ba, Be, Cd, Ca, <u>Cr</u> , Co, Cu, Fe, Pb , Mg, Mn, Hg, Ni, K, <u>Se</u> , Ag, Na, <u>Tl</u> , V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
Analysis Method		
ICP		Al, <u>Sb</u> , As, Ba, Be, Cd, Ca, <u>Cr</u> , Co, Cu, Fe, Pb , Mg, Mn, Hg, <u>Ni</u> , K, <u>Se</u> , Ag, Na, <u>Tl</u> , V, Zn, Mo, B, Si, CN;
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN;

Comments: Mercury by CVAA if performed

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>12/15/10</u>
II.	ICP/MS Tune	N	
III.	Calibration	N	
IV.	Blanks	A	
V.	ICP Interference Check Sample (ICS) Analysis	N	
VI.	Matrix Spike Analysis	N	} <u>C.S.</u>
VII.	Duplicate Sample Analysis	N	
VIII.	Laboratory Control Samples (LCS)	A	<u>LCS/D</u>
IX.	Internal Standard (ICP-MS)	N	
X.	Furnace Atomic Absorption QC	N	
XI.	ICP Serial Dilution	N	
XII.	Sample Result Verification	N	
XIII.	Overall Assessment of Data	A	
XIV.	Field Duplicates	N	
XV.	Field Blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-12A-1	5	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: 
 2nd reviewer: 

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1	S0	Al, <u>Sb</u> , <u>As</u> , <u>Ba</u> , <u>Be</u> , <u>Cd</u> , <u>Ca</u> , <u>Cr</u> , <u>Co</u> , <u>Cu</u> , <u>Fe</u> , <u>Pb</u> , Mg, Mn, <u>Hg</u> , <u>Ni</u> , K, <u>Se</u> , <u>Ag</u> , Na, <u>Tl</u> , <u>V</u> , <u>Zn</u> , <u>Mo</u> , B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
Analysis Method		
ICP		Al, <u>Sb</u> , <u>As</u> , <u>Ba</u> , <u>Be</u> , <u>Cd</u> , <u>Ca</u> , <u>Cr</u> , <u>Co</u> , <u>Cu</u> , <u>Fe</u> , <u>Pb</u> , Mg, Mn, Hg, <u>Ni</u> , K, <u>Se</u> , <u>Ag</u> , Na, <u>Tl</u> , <u>V</u> , <u>Zn</u> , <u>Mo</u> , B, Si, CN ⁺
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN ⁺

Comments: Mercury by CVAA if performed

METHOD: Hexavalent Chromium (EPA SW846 Method 7196A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8 13 10
IIa.	Initial calibration	N	
IIb.	Calibration verification	N	
III.	Blanks	A	
IV	Matrix Spike/Matrix Spike Duplicates	N	} Client specified
V	Duplicates	N	
VI.	Laboratory control samples	A	LCS 10
VII.	Sample result verification	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-4-1	11	21	31
2		12	22	32
3		13	23	33
4		14	24	34
5		15	25	35
6		16	26	36
7		17	27	37
8		18	28	38
9		19	29	39
10		20	30	40

Notes: _____

METHOD: Hexavalent Chromium (EPA SW846 Method 7196A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8 / 18 / 10
IIa.	Initial calibration	N	
IIb.	Calibration verification	N	
III.	Blanks	A	
IV	Matrix Spike/Matrix Spike Duplicates	N	} Cloud Spiked
V	Duplicates	N	
VI.	Laboratory control samples	A	LCSD
VII.	Sample result verification	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinstate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	SP-11-C-1-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 7/24/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	Δ	
IVa.	Surrogate recovery	Δ	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	res ID
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	Δ	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

2012

1	A-4-1	11	AG28-GS	21	31
2	A-5-1	12		22	32
3		13		23	33
4		14		24	34
5		15		25	35
6		16		26	36
7		17		27	37
8		18		28	38
9		19		29	39
10		20		30	40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/27/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	client specified
IVc.	Laboratory control samples	A	res ID
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:
 30/L

1	A-5-2	11	AG 28-95	21	31
2		12		22	32
3		13		23	33
4		14		24	34
5		15		25	35
6		16		26	36
7		17		27	37
8		18		28	38
9		19		29	39
10		20		30	40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/28/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	CS
IVc.	Laboratory control samples	SW	CCS/10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-5-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/29/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	CS
IVc.	Laboratory control samples	SW	LCS / 0
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-13-3	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/4/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LC5 D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-5-2	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/5/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCS/10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-4-1	S	11	21	31
2	B-4-2	↓	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

LDC #: 24959H7

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H011

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: 2nd Reviewer: 

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/9/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	CCS / D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SP-ASP-1	3	11		21		31
2	SP-ASP-2	4	12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

Notes: _____

LDC #: 24959J7

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H021

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/13/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	see 10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-4-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/16/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCSD
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-4-2	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/18/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCS/D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	SP-11-C-1-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8 19 10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCS 10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	L-23-2	S	11	21	31
2	F-5-1	↓	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/20/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCR/D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	E-5-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/24/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	2cs/d
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	F-4-1	5	11		21		31	
2	D-5-1		12		22		32	
3	D-5-2		13		23		33	
4	D-4-1		14		24		34	
5	D-4-2		15		25		35	
6	D-5-3		16		26		36	
7	D-5-4		17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/25/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	2 CS / D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	D-5-5	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/31/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCS/D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	D-5-6	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/2/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LC5/10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	C-1-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

LDC #: 24959T7

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10I007

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *[Signature]*
2nd Reviewer: *[Signature]*

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9 5 10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	A	
IVc.	Laboratory control samples	A	LC = KA
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

see sid

1	SPC-A-1	11	SPC-A-11	21	SPC-C-4	31	
2	SPC-A-2	12	SPC-B-1	22	SPC-C-5	32	
3	SPC-A-3	13	SPC-B-2	23	SPC-C-6	33	
4	SPC-A-4	14	SPC-B-3	24	SPC-CC-1	34	
5	SPC-A-5	15	SPC-B-4	25	SPC-C-6MS	35	
6	SPC-A-6	16	SPC-B-5	26	SPC-C-6MSD	36	
7	SPC-A-7	17	SPC-B-6	27		37	
8	SPC-A-8	18	SPC-C-1	28		38	
9	SPC-A-9	19	SPC-C-2	29		39	
10	SPC-A-10	20	SPC-C-3	30		40	

Notes: _____

LDC #: 24959U7

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10I010

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *[Signature]*

2nd Reviewer: *[Signature]*

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/8/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCS 10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-21-1	S	11	21	31
2	L-21-2	↓	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/10/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCS/D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-11-1&3 Comp.	11	21	31
2		12	22	32
3		13	23	33
4		14	24	34
5		15	25	35
6		16	26	36
7		17	27	37
8		18	28	38
9		19	29	39
10		20	30	40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>9/10/10</u>
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	<u>LC5/D</u>
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-11-2	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/23/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCS/D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	D-1-1	S	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/29/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	see 10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	D-2-1&C-2-1 Comp.	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10 / 11 / 10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	2-25 / 10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-3-1	↘	11		21		31
2	E-3-2	↓	12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/15/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCS 10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	F-3-1	W	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/26/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	US 10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	22	
X.	Field blanks	22	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-62-2	5	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10 / 26 / 10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	Δ	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCS 10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	L-62-1	5	11		21		31	
2	L-62-3	↓	12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

LDC #: 24964L7

VALIDATION COMPLETENESS WORKSHEET

Date: 2/24/11

SDG #: B10L023

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *[Signature]*
2nd Reviewer: *[Signature]*

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/13/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCS/D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet
ND = No compounds detected
R = Rinsate
FB = Field blank
D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	B-15-C1	S	11	21	31
2	A-6-1	↓	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12 15 10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LC 10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-3-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Gasoline (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/15/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCS 10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-12A-1	S	11	21	31
2	L-12A-2	↓	12	22	32
3	L-12A-3		13	23	33
4	L-12-1		14	24	34
5	L-12-2		15	25	35
6			16	26	36
7		17	27	37	
8		18	28	38	
9		19	29	39	
10		20	30	40	

Notes: _____

LDC #: 24959A8

VALIDATION COMPLETENESS WORKSHEET

SDG #: B10G049

Level II

Laboratory: ABC Environmental Laboratories

Date: 2/23/11

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 7/26/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	Δ	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	client specified
IVc.	Laboratory control samples	A	see ID
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	Δ	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

soil

+	1	A-4-1	11	BG 28 - DS	21	31
-	2	A-5-1	12		22	32
	3		13		23	33
	4		14		24	34
	5		15		25	35
	6		16		26	36
	7		17		27	37
	8		18		28	38
	9		19		29	39
	10		20		30	40

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 7/27/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	Δ	
IVa.	Surrogate recovery	Δ	
IVb.	Matrix spike/Matrix spike duplicates	N	client specified
IVc.	Laboratory control samples	A	les ID
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples: SOIL

1	A-5-2	11	BG28-DS	21	31
2		12		22	32
3		13		23	33
4		14		24	34
5		15		25	35
6		16		26	36
7		17		27	37
8		18		28	38
9		19		29	39
10		20		30	40

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/28/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	CS
IVc.	Laboratory control samples	A	CCS/D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-5-1	S	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 7/29/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCS / D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-13-3	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/4/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	See / D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-5-2	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/5/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCS 10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	B-4-1	S	11	21	31
2	B-4-2	↓	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

LDC #: 24959H8

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H011

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: AA

2nd Reviewer: [Signature]

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	Δ	Sampling dates: 8/9/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	Δ	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCs (D)
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	Δ	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	SP-ASP-1	S	11		21		31	
2	SP-ASP-2	↓	12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

LDC #: 24959J8

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H021

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: 2nd Reviewer:

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/13/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	CCS 10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	E-4-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/16/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCS 10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-4-2	5	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/18/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	ccs/10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	SP-11-C-1-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8 19 10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	See ID
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-23-2	S	11		21		31
2	F-5-1	↓	12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/20/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCS/O
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-5-1	S	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/24/11
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LC5/D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	F-4-1	S	11	21	31
2	D-5-1		12	22	32
3	D-5-2		13	23	33
4	D-4-1		14	24	34
5	D-4-2		15	25	35
6	D-5-3		16	26	36
7	D-5-4		17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/25/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	6/5/10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	D-5-5	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

LDC #: 24959R8

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10H047

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: 2nd Reviewer: **METHOD:** GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 8/31/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	CCS 10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	D-5-6	Σ	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/2/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCS / D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	C-1-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

LDC #: 24959T8

VALIDATION COMPLETENESS WORKSHEET

Date: 2/23/11

SDG #: B10I007

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *CS*

2nd Reviewer: *W*

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

Validation Area			Comments
I.	Technical holding times	A	Sampling dates: 9/3/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	A	
IVc.	Laboratory control samples	A	CCS AA
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet
 ND = No compounds detected
 R = Rinsate
 FB = Field blank
 D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

see soil

1	SPC-A-1	11	SPC-A-11	21	SPC-C-4	31	
2	SPC-A-2	12	SPC-B-1	22	SPC-C-5	32	
3	SPC-A-3	13	SPC-B-2	23	SPC-C-6	33	
4	SPC-A-4	14	SPC-B-3	24	SPC-CC-1	34	
5	SPC-A-5	15	SPC-B-4	25	SPC-C-3MS	35	
6	SPC-A-6	16	SPC-B-5	26	SPC-C-3MSD	36	
7	SPC-A-7	17	SPC-B-6	27		37	
8	SPC-A-8	18	SPC-C-1	28		38	
9	SPC-A-9	19	SPC-C-2	29		39	
10	SPC-A-10	20	SPC-C-3	30		40	

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/8/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCS 10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	L-21-1	S	11	21	31
2	L-21-2	↓	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/10/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCS 1A
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	L-11-1&3 Comp.	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/10/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCS 10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-11-2	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/23/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	CCS/D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	D-1-1	11	21	31
2		12	22	32
3		13	23	33
4		14	24	34
5		15	25	35
6		16	26	36
7		17	27	37
8		18	28	38
9		19	29	39
10		20	30	40

Notes: _____

LDC #: 24960F8

VALIDATION COMPLETENESS WORKSHEET

Date: 2/29/10

SDG #: B10I050

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: *[Signature]*
2nd Reviewer: *[Signature]*

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/29/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LC-10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	D-2-1&C-2-1 Comp.	Σ	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/11/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LC5/10
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	E-3-1	S	11	21	31
2	E-3-2	J	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>10/15/10</u>
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	<u>LCs / D</u>
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	F-3-1	<u>N</u>	11		21		31	
2			12		22		32	
3			13		23		33	
4			14		24		34	
5			15		25		35	
6			16		26		36	
7			17		27		37	
8			18		28		38	
9			19		29		39	
10			20		30		40	

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 10/26/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCs/D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-62-2	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>12/26/10</u>
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	<u>LC5 1D</u>
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-62-1	S	11		21		31
2	L-62-3	↓	12		22		32
3			13		23		33
4			14		24		34
5			15		25		35
6			16		26		36
7			17		27		37
8			18		28		38
9			19		29		39
10			20		30		40

Notes: _____

LDC #: 24964L8

VALIDATION COMPLETENESS WORKSHEET

Date: 2/24/11

SDG #: B10L023

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: CA

2nd Reviewer: W

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/13/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	CCS/D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	B-15-C1	S	11	21	31
2	A-6-1	f	12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

LDC #: 24964M8

VALIDATION COMPLETENESS WORKSHEET

Date: 2/24/11

SDG #: B10L030

Level II

Page: 1 of 1

Laboratory: ABC Environmental Laboratories

Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/15/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	CCSID
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet

ND = No compounds detected
R = Rinsate
FB = Field blank

D = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

1	B-3-1	S	11	21	31
2			12	22	32
3			13	23	33
4			14	24	34
5			15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

METHOD: GC TPH as Extractables (EPA SW 846 Method 8015M)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/15/10
IIa.	Initial calibration	N	
IIb.	Calibration verification/ICV	N	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	
IVc.	Laboratory control samples	A	LCS/D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L-12A-1	S	11	21	31
2	L-12A-2		12	22	32
3	L-12A-3		13	23	33
4	L-12-1		14	24	34
5	L-12-2		15	25	35
6			16	26	36
7			17	27	37
8			18	28	38
9			19	29	39
10			20	30	40

Notes: _____

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

7/29/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 7/26/2010
Lab Job No.: B10G049

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 7/26/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0727-VOCS

Lab Job No.: B10G049
 Date Sampled: 7/26/2010
 Date Received: 7/26/2010
 Date Analyzed: 7/27/2010
 Date Reported: 7/29/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			07/27/10	07/27/10	07/27/10
Dilution Factor			1	1	1
Lab Sample I.D.			B10G049-1	B10G049-2	Method Blank
Client Sample I.D.			A-4-1	A-5-1	
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	ND
Chloromethane	0.0018	0.005	ND	ND	ND
Vinyl Chloride	0.0018	0.005	ND	ND	ND
Bromomethane	0.0018	0.005	ND	ND	ND
Chloroethane	0.0018	0.005	ND	ND	ND
Trichlorofluoromethane	0.0018	0.005	ND	ND	ND
1,1-Dichloroethene	0.0018	0.005	ND	ND	ND
Carbon disulfide	0.0018	0.005	ND	ND	ND
Methylene chloride	0.0018	0.005	ND	ND	ND
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	ND
1,1-Dichloroethane	0.0018	0.005	ND	ND	ND
2,2-Dichloropropane	0.0018	0.005	ND	ND	ND
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	ND
Bromochloromethane	0.0018	0.005	ND	ND	ND
Chloroform	0.0018	0.005	ND	ND	ND
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	ND
Vinyl acetate	0.0018	0.005	ND	ND	ND
Carbontetrachloride	0.0018	0.005	ND	ND	ND
1,1-Dichloropropene	0.0018	0.005	ND	ND	ND
1,2-Dichloroethane	0.0018	0.005	ND	ND	ND
Benzene	0.001	0.002	ND	ND	ND
Trichloroethene	0.0018	0.005	ND	ND	ND
1,2-Dichloropropane	0.0018	0.005	ND	ND	ND
Methyl methacrylate	0.0018	0.005	ND	ND	ND
Dibromomethane	0.0018	0.005	ND	ND	ND
Bromodichloromethane	0.0018	0.005	ND	ND	ND
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	ND
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	ND
Toluene	0.001	0.002	ND	ND	ND
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	ND
Ethylmethacrylate	0.0018	0.005	ND	ND	ND
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	ND
Dibromochloromethane	0.0018	0.005	ND	ND	ND
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	ND
Tetrachloroethene	0.0018	0.005	ND	ND	ND
1,3-Dichloropropane	0.0018	0.005	ND	ND	ND
Chlorobenzene	0.0018	0.005	ND	ND	ND

RL=Reporting Limit; ND=Not Detected (Below MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0727-VOCS

Lab Job No.: B10G049
 Date Sampled: 7/26/2010
 Date Received: 7/26/2010
 Date Analyzed: 7/27/2010
 Date Reported: 7/29/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			07/27/10	07/27/10	07/27/10	
Dilution Factor			1	1	1	
Lab Sample I.D.			B10G049-1	B10G049-2	Method Blank	
Client Sample I.D.			A-4-1	A-5-1		
Compound	MDL	RL				
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	ND	
Total Xylene	0.002	0.004	ND	ND	ND	
Styrene	0.0018	0.005	ND	ND	ND	
Bromoform	0.0018	0.005	ND	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	ND	
Acetone	0.025	0.050	ND	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	ND	
MTBE	0.0018	0.005	ND	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	ND	
TAME	0.0018	0.005	ND	ND	ND	
t-Butanol	0.010	0.020	ND	ND	ND	
Ethanol	0.25	0.5	ND	ND	ND	
Surrogate Recovery (%) QC Limit 70-130						
1,2-Dichloroethane-d4			104	107	84	
Toluene-d8			95	96	79	
4-Bromofluorobenzene			103	106	91	

RL=Reporting Limit; ND=Not Detected (Below MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0727-VOCS

Lab Job No.: B10G049
Lab Sample ID: LCS
Date Analyzed: 7/27/2010
Date Reported: 7/29/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.018	0.018	90	90	0	≤20	80-120
Benzene	ND	0.020	0.023	0.020	115	100	14	≤20	80-120
Trichloroethene	ND	0.020	0.019	0.018	95	90	5	≤20	80-120
Toluene	ND	0.020	0.022	0.018	110	90	20	≤20	80-120
Chlorobenzene	ND	0.020	0.023	0.021	115	105	9	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	84				82	91			70-130
Toluene-d8	79				75	85			70-130
4-Bromofluorobenzene	91				94	99			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10G049
Project:	Sunkist	Date Sampled:	7/26/2010
Project Site:	Sunkist, Ontario	Date Received:	7/26/2010
Matrix:	Soil	Date Analyzed:	7/28/2010
Batch No.:	AG28-GS (TPH-G)	Date Analyzed:	7/28/2010
Batch No.:	BG28-DS (TPH-D)	Date Reported:	7/29/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Dilution Factor	Gasoline C4-C12	Diesel C12-C24	Oil C24-C40	Surrogate(%) For Gasoline	Surrogate(%) For Diesel
	RL		0.1	10	50		
A-4-1	B10G049-1	1	ND	18.5	ND	103	85
A-5-1	B10G049-2	1	ND	ND	ND	123	91

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10G049

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 7/28/2010

Batch No.: AG28-GS

Date Reported: 7/29/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	1.02	1.13	102	113	10	≤20	80-120
Surrogate (%)	99				105	110			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10G049

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 7/28/2010

Batch No.: BG28-DS

Date Reported: 7/29/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	405	436	81	87	7	≤20	80-120
Surrogate (%)	91				85	92			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10G049
Project:	Sunkist	Date Sampled:	7/26/2010
Project Site:	Sunkist, Ontario	Date Received:	7/26/2010
Matrix:	Soil	Date Extracted:	7/27/2010
Extraction Method:	EPA 3550B	Date Analyzed:	7/28/2010
Batch No.:	0728-PES-S	Date Reported:	7/29/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1	1		
LAB SAMPLE I.D.		B10G049-1	B10G049-2	Method Blank		
CLIENT SAMPLE I.D.		A-4-1	A-5-1			
COMPOUND	RL					
α-BHC	5	ND	ND	ND		
γ-BHC	5	ND	ND	ND		
Heptachlor	5	ND	ND	ND		
Aldrin	5	ND	ND	ND		
β-BHC	5	ND	ND	ND		
δ-BHC	5	13.7	ND	ND		
α-Chlordane	5	ND	ND	ND		
γ-Chlordane	5	ND	ND	ND		
Heptachlor Epoxide	5	ND	ND	ND		
Endosulfan I	5	ND	ND	ND		
4,4'-DDE	5	7.63	ND	ND		
Dieldrin	5	ND	ND	ND		
Endrin	5	ND	ND	ND		
Endosulfan II	5	ND	ND	ND		
4,4'-DDD	5	ND	ND	ND		
4,4'-DDT	5	17.5	ND	ND		
Endrin Aldehyde	5	ND	ND	ND		
Endosulfan Sulfate	5	ND	ND	ND		
Methoxychlor	20	ND	ND	ND		
Endrin Ketone	10	ND	ND	ND		
Technical Chlordane	25	ND	ND	ND		
Toxaphene	100	ND	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		83	82	101		
Decachlorobiphenyl		110	89	112		

RL=Reporting Limit; ND=Not Detected (Below RL).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10G049
Project:	Sunkist	Lab Sample ID:	B10G049-2
Matrix:	Soil	Date Analyzed:	7/28/2010
Batch No.:	0728-PES-S	Date Reported	7/29/2010

I. MS/MSD Report

Unit: ug/kg

Compound	Sample Conc.	Spike Conc.	MS	MSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	18.2	16.2	91	81	12	≤30	50-150
Heptachlor	ND	20	16.1	17.5	81	88	8	≤30	50-150
Aldrin	ND	20	17.6	19.2	88	96	9	≤30	50-140
Dieldrin	ND	40	48.1	45.3	120	113	6	≤30	70-130
Endrin	ND	40	42.2	41.2	106	103	2	≤30	70-150
4,4'-DDT	ND	40	35.6	32.4	89	81	9	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	89				85	79		65-140	
DCP	106				93	85		65-140	

II. MB/LCS Report

Unit: ug/kg

Analyte	Method Blank	Report Value	True Value	Rec.%	Accept Limit
γ -BHC	ND	21.2	20	106	50-150
Heptachlor	ND	18.1	20	91	50-150
Aldrin	ND	17.2	20	86	50-140
Dieldrin	ND	39.5	40	99	70-130
Endrin	ND	41.3	40	103	70-150
4,4'-DDT	ND	35.6	40	89	30-130
Surrogate Recovery (%)					
2,4,5,6-TCMX	101			85	65-140
DCP	112			105	65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10G049
Project:	Sunkist	Date Sampled:	7/26/2010
Project Site:	Sunkist, Ontario	Date Received:	7/26/2010
Matrix:	Soil	Date Extracted:	7/27/2010
Extraction Method:	EPA 3550B	Date Analyzed:	7/28/2010
Batch No.:	0728-PCBS	Date Reported:	7/29/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1		
LAB SAMPLE I.D.		B10G049-1	B10G049-2	Method Blank		
CLIENT SAMPLE I.D.		A-4-1	A-5-1			
COMPOUND	RL					
PCB-1016	25	ND	ND	ND		
PCB-1221	50	ND	ND	ND		
PCB-1232	25	ND	ND	ND		
PCB-1242	25	ND	ND	ND		
PCB-1248	25	ND	ND	ND		
PCB-1254	25	2020	ND	ND		
PCB-1260	25	ND	ND	ND		
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		83	77	101		
Decachlorobiphenyl		102	104	112		

RL: Reporting Limit.

ND: Not Detected (Below Dilution Factor x RL).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0728-PCBS

Lab Job No.: B10G049
Lab Sample ID: LCS
Date Analyzed: 7/28/2010
Date Reported: 7/29/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	445	415	89	83	7	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	101				101	89			65-140
DCP	112				95	91			65-140

ND: Not Detected (Below RL).

MB: Method Blank.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10G049
Project:	Sunkist	Date Sampled:	7/26/2010
Project Site:	Sunkist, Ontario	Date Received:	7/26/2010
Matrix:	Soil	Date Digested:	7/27/2010
Digestion Method:	3050B	Date Analyzed:	7/28/2010
Batch No.:	0728-MTS	Date Reported:	7/29/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10G049-1	B10G049-2			Report
		A-4-1	A-5-1			Limit
Antimony (Sb)	6010B	ND	ND			10
Arsenic (As)	6010B	1.2	ND			0.5
Barium (Ba)	6010B	33.4	14.1			5.0
Beryllium (Be)	6010B	ND	ND			2.5
Cadmium (Cd)	6010B	ND	ND			2.5
Chromium (Cr)	6010B	7.15	2.51			2.5
Cobalt (Co)	6010B	2.5	ND			2.5
Copper (Cu)	6010B	22.5	9.14			2.5
Lead (Pb)	6010B	6.25	4.75			2.5
Mercury (Hg)	7471A	ND	ND			0.1
Molybdenum (Mo)	6010B	ND	ND			5.0
Nickel (Ni)	6010B	3.54	ND			2.5
Selenium (Se)	6010B	ND	ND			0.5
Silver (Ag)	6010B	ND	ND			2.5
Thallium (Tl)	6010B	ND	ND			2.5
Vanadium (V)	7910	17.0	ND			5.0
Zinc (Zn)	7950	9.59	8.8			2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client: Bowyer Environmental
 Project: Sunkist
 Matrix: Soil
 Batch No.: 0728-MTS

Lab Job No.: B10G049
 Lab Sample ID: LCS
 Date Analyzed: 7/28/2010
 Date Reported: 7/29/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	125	121	101	97	81	18	≤20	80-120
Arsenic (As)	6010B	ND	25	22.3	21.4	89	86	4	≤20	80-120
Barium (Ba)	6010B	ND	25	22.1	23.2	88	93	5	≤20	80-120
Beryllium (Be)	6010B	ND	25	23.5	22.6	94	90	4	≤20	80-120
Cadmium (Cd)	6010B	ND	25	21.6	22.4	86	90	4	≤20	80-120
Chromium (Cr)	6010B	ND	25	23.1	22.5	92	90	3	≤20	80-120
Cobalt (Co)	6010B	ND	25	20.5	22.3	82	89	8	≤20	80-120
Copper (Cu)	6010B	ND	50	45.1	42.2	90	84	7	≤20	80-120
Lead (Pb)	6010B	ND	50	41.5	46.2	83	92.4	11	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.85	1.91	93	96	3	≤20	80-120
Molybdenum (Mo)	6010B	ND	25	20.5	21.6	82	86	5	≤20	80-120
Nickel (Ni)	6010B	ND	25	23.5	22.1	94	88	6	≤20	80-120
Selenium (Se)	6010B	ND	25	22.2	23.5	89	94	6	≤20	80-120
Silver (Ag)	6010B	ND	25	21.2	23.1	85	92	9	≤20	80-120
Thallium (Tl)	6010B	ND	25	24.6	23.8	98	95	3	≤20	80-120
Vanadium (V)	6010B	ND	125	115	126	92	101	9	≤20	80-120
Zinc (Zn)	6010B	ND	25	22.5	23.1	90	92	3	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10G049
Project :	Sunkist	Date Sampled:	7/26/2010
Project Site:	Sunkist, Ontario	Date Received:	7/26/2010
Matrix:	Soil	Date Extracted:	7/27/2010
Extraction Method:	3550B	Date Analyzed:	7/28/2010
Batch No.:	0728-SVOCS	Date Reported:	7/29/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		1	1		
Lab Sample I.D.		B10G049-1	B10G049-2		
Client Sample I.D.		A-4-1	A-5-1		
Compound	RL				
Naphthalene	0.025	0.04	ND		
Acenaphthylene	0.025	ND	ND		
Acenaphthene	0.025	ND	ND		
Fluorene	0.025	ND	ND		
Phenanthrene	0.025	0.16	ND		
Anthracene	0.025	0.04	ND		
Fluoranthene	0.025	0.244	ND		
Pyrene	0.025	0.439	ND		
Benzo (a) anthracene	0.025	0.116	ND		
Chrysene	0.025	0.175	ND		
Benzo (b) fluoranthene	0.025	0.128	ND		
Benzo (k) fluoranthene	0.025	0.15	ND		
Benzo (a) pyrene	0.025	0.072	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND	ND		
Dibenzo(a,h)anthracene	0.025	ND	ND		
Benzo(g,h,i)perylene	0.025	ND	ND		
Surrogate Recovery (%) QC Limit 50-150					
Nitrobenzene-d5		82	88		
2-Fluorobiphenyl		87	91		
p-Terphenyl-d14		79	81		

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10G049
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	7/28/2010
Batch No.:	0728-SVOCS	Date Reported:	7/29/2010

MB/LCS/LCSD Report

Unit: mg/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.15	0.17	60	68	13	≤30	50-150
Acenaphthylene	ND	0.25	0.18	0.20	72	80	11	≤30	50-150
Acenaphthene	ND	0.25	0.20	0.18	80	72	11	≤30	50-150
Fluorene	ND	0.25	0.17	0.16	68	64	6	≤30	50-150
Phenanthrene	ND	0.25	0.22	0.21	88	84	5	≤30	50-150
Anthracene	ND	0.25	0.20	0.22	80	88	10	≤30	50-150
Fluoranthene	ND	0.25	0.18	0.15	72	60	18	≤30	50-150
Pyrene	ND	0.25	0.21	0.23	84	92	9	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.19	0.22	76	88	15	≤30	50-150
Chrysene	ND	0.25	0.21	0.16	84	64	27	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.20	0.18	80	72	11	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.19	0.17	76	68	11	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.18	0.20	72	80	11	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.20	0.22	80	88	10	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.21	0.23	84	92	9	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.22	0.19	88	76	15	≤30	50-150
Nitrobenzene-d5 %Rec.	81				71	81			50-150
2-Fluorobiphenyl %Rec.	75				85	84			50-150
p-Terphenyl-d14 %Rec.	92				82	83			50-150

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested															
Address 17011 Beach Blvd.		<input checked="" type="checkbox"/> Chilled		<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B(BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td>8270C SIMPNAS</td> <td></td> <td></td> <td></td> </tr> </table>										EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	8270C SIMPNAS				<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal
EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)											EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	8270C SIMPNAS								
Report Attention	Phone # 877-232-4620 Fax: #	<input checked="" type="checkbox"/> Intact																											
Project No./ Name	Project Site Junkist Ontario		<input type="checkbox"/> Sample Seal																										
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container											Remarks												
		Date	Time																										
A-4-1	B10G049H	7/26/2010	12:30pm	soil			X					X	X		X														
A-5-2	✓-2	7/26/2010	12:30	soil			X					X	X		X														
			9:28am																										

Relinquished By Brian Bayer	Company BEC	Date 7/26/10	Time 3:16 pm	Received By [Signature]	Company ABC Labs	Date 7/26/10	Time 3:16PM	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

7/29/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 7/27/2010
Lab Job No.: B10G051

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 7/27/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0727-VOCS

Lab Job No.: B10G051
 Date Sampled: 7/27/2010
 Date Received: 7/27/2010
 Date Analyzed: 7/27/2010
 Date Reported: 7/29/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			07/27/10	07/27/10	
Dilution Factor			1	1	
Lab Sample I.D.			B10G051-1	Method Blank	
Client Sample I.D.			A-5-2		
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	
Chloromethane	0.0018	0.005	ND	ND	
Vinyl Chloride	0.0018	0.005	ND	ND	
Bromomethane	0.0018	0.005	ND	ND	
Chloroethane	0.0018	0.005	ND	ND	
Trichlorofluoromethane	0.0018	0.005	ND	ND	
1,1-Dichloroethene	0.0018	0.005	ND	ND	
Carbon disulfide	0.0018	0.005	ND	ND	
Methylene chloride	0.0018	0.005	ND	ND	
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	
1,1-Dichloroethane	0.0018	0.005	ND	ND	
2,2-Dichloropropane	0.0018	0.005	ND	ND	
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	
Bromochloromethane	0.0018	0.005	ND	ND	
Chloroform	0.0018	0.005	ND	ND	
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	
Vinyl acetate	0.0018	0.005	ND	ND	
Carbontetrachloride	0.0018	0.005	ND	ND	
1,1-Dichloropropene	0.0018	0.005	ND	ND	
1,2-Dichloroethane	0.0018	0.005	ND	ND	
Benzene	0.001	0.002	ND	ND	
Trichloroethene	0.0018	0.005	ND	ND	
1,2-Dichloropropane	0.0018	0.005	ND	ND	
Methyl methacrylate	0.0018	0.005	ND	ND	
Dibromomethane	0.0018	0.005	ND	ND	
Bromodichloromethane	0.0018	0.005	ND	ND	
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Toluene	0.001	0.002	ND	ND	
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Ethylmethacrylate	0.0018	0.005	ND	ND	
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	
Dibromochloromethane	0.0018	0.005	ND	ND	
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	
Tetrachloroethene	0.0018	0.005	ND	ND	
1,3-Dichloropropane	0.0018	0.005	ND	ND	
Chlorobenzene	0.0018	0.005	ND	ND	

RL=Reporting Limit; ND=Not Detected (Below MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0727-VOCS

Lab Job No.: B10G051
 Date Sampled: 7/27/2010
 Date Received: 7/27/2010
 Date Analyzed: 7/27/2010
 Date Reported: 7/29/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		07/27/10	07/27/10		
Dilution Factor		1	1		
Lab Sample I.D.		B10G051-1	Method Blank		
Client Sample I.D.		A-5-2			
Compound	MDL	RL			
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	
Total Xylene	0.002	0.004	ND	ND	
Styrene	0.0018	0.005	ND	ND	
Bromoform	0.0018	0.005	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	
Acetone	0.025	0.050	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	
MTBE	0.0018	0.005	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	
TAME	0.0018	0.005	ND	ND	
t-Butanol	0.010	0.020	ND	ND	
Ethanol	0.25	0.5	ND	ND	
Surrogate Recovery (%) QC Limit 70-130					
1,2-Dichloroethane-d4			85	84	
Toluene-d8			92	79	
4-Bromofluorobenzene			101	91	

RL=Reporting Limit; ND=Not Detected (Below MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0727-VOCS

Lab Job No.: B10G051
Lab Sample ID: LCS
Date Analyzed: 7/27/2010
Date Reported: 7/29/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.018	0.018	90	90	0	≤20	80-120
Benzene	ND	0.020	0.023	0.020	115	100	14	≤20	80-120
Trichloroethene	ND	0.020	0.019	0.018	95	90	5	≤20	80-120
Toluene	ND	0.020	0.022	0.018	110	90	20	≤20	80-120
Chlorobenzene	ND	0.020	0.023	0.021	115	105	9	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	84				82	91			70-130
Toluene-d8	79				75	85			70-130
4-Bromofluorobenzene	91				94	99			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10G051
Project:	Sunkist	Date Sampled:	7/27/2010
Project Site:	Sunkist, Ontario	Date Received:	7/27/2010
Matrix:	Soil	Date Analyzed:	7/28/2010
Batch No.:	AG28-GS (TPH-G)	Date Analyzed:	7/28/2010
Batch No.:	BG28-DS (TPH-D)	Date Reported:	7/29/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Dilution	Gasoline	Diesel	Oil	Surrogate(%)	Surrogate(%)
		Factor	C4-C12	C12-C24	C24-C40	For Gasoline	For Diesel
	RL		0.1	10	50		
A-5-2	B10G051-1	1	ND	ND	ND	82	91

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10G051

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 7/28/2010

Batch No.: AG28-GS

Date Reported: 7/29/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	1.02	1.13	102	113	10	≤20	80-120
Surrogate (%)	99				105	110			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: BG28-DS

Lab Job No.: B10G051
Lab Sample ID: LCS
Date Analyzed: 7/28/2010
Date Reported: 7/29/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	405	436	81	87	7	≤20	80-120
Surrogate (%)	91				85	92			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10G051
Project:	Sunkist	Date Sampled:	7/27/2010
Project Site:	Sunkist, Ontario	Date Received:	7/27/2010
Matrix:	Soil	Date Extracted:	7/27/2010
Extraction Method:	EPA 3550B	Date Analyzed:	7/28/2010
Batch No.:	0728-PES-S	Date Reported:	7/29/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1		
LAB SAMPLE I.D.		B10G051-1	Method Blank		
CLIENT SAMPLE I.D.		A-5-2			
COMPOUND	RL				
α-BHC	5	ND	ND		
γ-BHC	5	ND	ND		
Heptachlor	5	ND	ND		
Aldrin	5	ND	ND		
β-BHC	5	ND	ND		
δ-BHC	5	ND	ND		
α-Chlordane	5	ND	ND		
γ-Chlordane	5	ND	ND		
Heptachlor Epoxide	5	ND	ND		
Endosulfan I	5	ND	ND		
4,4'-DDE	5	ND	ND		
Dieldrin	5	ND	ND		
Endrin	5	ND	ND		
Endosulfan II	5	ND	ND		
4,4'-DDD	5	ND	ND		
4,4'-DDT	5	ND	ND		
Endrin Aldehyde	5	ND	ND		
Endosulfan Sulfate	5	ND	ND		
Methoxychlor	20	ND	ND		
Endrin Ketone	10	ND	ND		
Technical Chlordane	25	ND	ND		
Toxaphene	100	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140			
2,4,5,6-Tetrachloro-m-xylene		89	101		
Decachlorobiphenyl		106	112		

RL=Reporting Limit; ND=Not Detected (Below RL).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
 Project: Sunkist
 Matrix: Soil
 Batch No.: 0728-PES-S

Lab Job No.: B10G051
 Lab Sample ID: B10G051-1
 Date Analyzed: 7/28/2010
 Date Reported: 7/29/2010

I. MS/MSD Report

Unit: ug/kg

Compound	Sample Conc.	Spike Conc.	MS	MSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	18.2	16.2	91	81	12	≤30	50-150
Heptachlor	ND	20	16.1	17.5	81	88	8	≤30	50-150
Aldrin	ND	20	17.6	19.2	88	96	9	≤30	50-140
Dieldrin	ND	40	48.1	45.3	120	113	6	≤30	70-130
Endrin	ND	40	42.2	41.2	106	103	2	≤30	70-150
4,4'-DDT	ND	40	35.6	32.4	89	81	9	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	89				85	79		65-140	
DCP	106				93	85		65-140	

II. MB/LCS Report

Unit: ug/kg

Analyte	Method Blank	Report Value	True Value	Rec.%	Accept Limit
γ -BHC	ND	21.2	20	106	50-150
Heptachlor	ND	18.1	20	91	50-150
Aldrin	ND	17.2	20	86	50-140
Dieldrin	ND	39.5	40	99	70-130
Endrin	ND	41.3	40	103	70-150
4,4'-DDT	ND	35.6	40	89	30-130
Surrogate Recovery (%)					
2,4,5,6-TCMX	101			85	65-140
DCP	112			105	65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10G051
Project:	Sunkist	Date Sampled:	7/27/2010
Project Site:	Sunkist, Ontario	Date Received:	7/27/2010
Matrix:	Soil	Date Extracted:	7/27/2010
Extraction Method:	EPA 3550B	Date Analyzed:	7/28/2010
Batch No.:	0728-PCBS	Date Reported:	7/29/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1			
LAB SAMPLE I.D.		B10G051-1	Method Blank			
CLIENT SAMPLE I.D.		A-5-2				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	ND	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		89	101			
Decachlorobiphenyl		106	112			

RL=Reporting Limit; ND=Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0728-PCBS

Lab Job No.: B10G051
Lab Sample ID: LCS
Date Analyzed: 7/28/2010
Date Reported: 7/29/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	445	415	89	83	7	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	101				101	89			65-140
DCP	112				95	91			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project: Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Digestion Method: 3050B
 Batch No.: 0728-MTS

Lab Job No.: B10G051
 Date Sampled: 7/27/2010
 Date Received: 7/27/2010
 Date Digested: 7/27/2010
 Date Analyzed: 7/28/2010
 Date Reported: 7/29/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10G051-1				Report Limit
		A-5-2				
Antimony (Sb)	6010B	ND				10
Arsenic (As)	6010B	1.21				0.5
Barium (Ba)	6010B	38.8				5.0
Beryllium (Be)	6010B	ND				2.5
Cadmium (Cd)	6010B	ND				2.5
Chromium (Cr)	6010B	13.7				2.5
Cobalt (Co)	6010B	4.1				2.5
Copper (Cu)	6010B	13.4				2.5
Lead (Pb)	6010B	3.53				2.5
Mercury (Hg)	7471A	ND				0.1
Molybdenum (Mo)	6010B	ND				5.0
Nickel (Ni)	6010B	8.81				2.5
Selenium (Se)	6010B	ND				0.5
Silver (Ag)	6010B	ND				2.5
Thallium (Tl)	6010B	ND				2.5
Vanadium (V)	6010B	25.2				5.0
Zinc (Zn)	6010B	31.8				2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client: Bowyer Environmental
 Project: Sunkist
 Matrix: Soil
 Batch No.: 0728-MTS

Lab Job No.: B10G051
 Lab Sample ID: LCS
 Date Analyzed: 7/28/2010
 Date Reported: 7/29/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	125	121	101	97	81	18	≤20	80-120
Arsenic (As)	6010B	ND	25	22.3	21.4	89	86	4	≤20	80-120
Barium (Ba)	6010B	ND	25	22.1	23.2	88	93	5	≤20	80-120
Beryllium (Be)	6010B	ND	25	23.5	22.6	94	90	4	≤20	80-120
Cadmium (Cd)	6010B	ND	25	21.6	22.4	86	90	4	≤20	80-120
Chromium (Cr)	6010B	ND	25	23.1	22.5	92	90	3	≤20	80-120
Cobalt (Co)	6010B	ND	25	20.5	22.3	82	89	8	≤20	80-120
Copper (Cu)	6010B	ND	50	45.1	42.2	90	84	7	≤20	80-120
Lead (Pb)	6010B	ND	50	41.5	46.2	83	92.4	11	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.85	1.91	93	96	3	≤20	80-120
Molybdenum (Mo)	6010B	ND	25	20.5	21.6	82	86	5	≤20	80-120
Nickel (Ni)	6010B	ND	25	23.5	22.1	94	88	6	≤20	80-120
Selenium (Se)	6010B	ND	25	22.2	23.5	89	94	6	≤20	80-120
Silver (Ag)	6010B	ND	25	21.2	23.1	85	92	9	≤20	80-120
Thallium (Tl)	6010B	ND	25	24.6	23.8	98	95	3	≤20	80-120
Vanadium (V)	6010B	ND	125	115	126	92	101	9	≤20	80-120
Zinc (Zn)	6010B	ND	25	22.5	23.1	90	92	3	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10G051
Project :	Sunkist	Date Sampled:	7/27/2010
Project Site:	Sunkist, Ontario	Date Received:	7/27/2010
Matrix:	Soil	Date Extracted:	7/27/2010
Extraction Method:	3550B	Date Analyzed:	7/28/2010
Batch No.:	0728-SVOCS	Date Reported:	7/29/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		1		
Lab Sample I.D.		B10G051-1		
Client Sample I.D.		A-5-2		
Compound	RL			
Naphthalene	0.025	ND		
Acenaphthylene	0.025	ND		
Acenaphthene	0.025	ND		
Fluorene	0.025	ND		
Phenanthrene	0.025	ND		
Anthracene	0.025	ND		
Fluoranthene	0.025	ND		
Pyrene	0.025	ND		
Benzo (a) anthracene	0.025	ND		
Chrysene	0.025	ND		
Benzo (b) fluoranthene	0.025	ND		
Benzo (k) fluoranthene	0.025	ND		
Benzo (a) pyrene	0.025	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND		
Dibenzo(a,h)anthracene	0.025	ND		
Benzo(g,h,i)perylene	0.025	ND		
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		72		
2-Fluorobiphenyl		81		
p-Terphenyl-d14		73		

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10G051
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	7/28/2010
Batch No.:	0728-SVOCS	Date Reported:	7/29/2010

MB/LCS/LCSD Report

Unit: mg/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.15	0.17	60	68	13	≤30	50-150
Acenaphthylene	ND	0.25	0.18	0.20	72	80	11	≤30	50-150
Acenaphthene	ND	0.25	0.20	0.18	80	72	11	≤30	50-150
Fluorene	ND	0.25	0.17	0.16	68	64	6	≤30	50-150
Phenanthrene	ND	0.25	0.22	0.21	88	84	5	≤30	50-150
Anthracene	ND	0.25	0.20	0.22	80	88	10	≤30	50-150
Fluoranthene	ND	0.25	0.18	0.15	72	60	18	≤30	50-150
Pyrene	ND	0.25	0.21	0.23	84	92	9	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.19	0.22	76	88	15	≤30	50-150
Chrysene	ND	0.25	0.21	0.16	84	64	27	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.20	0.18	80	72	11	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.19	0.17	76	68	11	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.18	0.20	72	80	11	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.20	0.22	80	88	10	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.21	0.23	84	92	9	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.22	0.19	88	76	15	≤30	50-150
Nitrobenzene-d5 %Rec.	81				71	81			50-150
2-Fluorobiphenyl %Rec.	75				85	84			50-150
p-Terphenyl-d14 %Rec.	92				82	83			50-150

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Analyses Requested

Client Name <u>BEC</u>		Sample Receipt Conditions												Turn Around Time Requested <input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal
Address <u>17012 Beach Blvd. H.B. Ca.</u>		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal												
Report Attention <u>BEC</u>	Phone #	Fax: #	Sampled By <u>Brian Bauer</u>											
Project No./ Name		Project Site <u>Sunkist Ontario</u>												

Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<u>8276C SIM PWAS</u>	Remarks
		Date	Time																
<u>A-5-2</u>	<u>B10G051-1</u>	<u>7/27/2020</u>	<u>9:20am</u>	<u>Soil</u>			X					X	X		X		X	X	

Relinquished By <u>Brian Bauer</u>	Company <u>BEC</u>	Date <u>7/27/2020</u>	Time <u>2:40pm</u>	Received By <u>[Signature]</u>	Company <u>ABC Labs</u>	Date <u>7/27/10</u>	Time <u>2:40PM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code: DW=Drinking Water SL=Sludge Preservative Code IC=Ice SH=NaOH
 GW=Ground Water SS=Soil/Sediment HC=HCl ST=Na2S2O3
 WW=Waste Water AR=Air HN=HNO3 HS=H2SO4
 SD=Solid Waste PP=Pure Product
 * Sample Container Types:
 T= Tedlar Air Bag B= Brass Tube E= EnCore
 G= Glass Container P= Plastic Bottle
 ST= Steel Tube V= VOA Vial

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

8/2/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 7/28/2010
Lab Job No.: B10G052

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 7/28/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0731-VOCS

Lab Job No.: B10G052
 Date Sampled: 7/28/2010
 Date Received: 7/28/2010
 Date Analyzed: 7/31/2010
 Date Reported: 8/2/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			07/31/10	07/31/10	
Dilution Factor			200	1	
Lab Sample I.D.			B10G052-1	Method Blank	
Client Sample I.D.			B-5-1		
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	
Chloromethane	0.0018	0.005	ND	ND	
Vinyl Chloride	0.0018	0.005	ND	ND	
Bromomethane	0.0018	0.005	ND	ND	
Chloroethane	0.0018	0.005	ND	ND	
Trichlorofluoromethane	0.0018	0.005	ND	ND	
1,1-Dichloroethene	0.0018	0.005	ND	ND	
Carbon disulfide	0.0018	0.005	ND	ND	
Methylene chloride	0.0018	0.005	ND	ND	
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	
1,1-Dichloroethane	0.0018	0.005	ND	ND	
2,2-Dichloropropane	0.0018	0.005	ND	ND	
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	
Bromochloromethane	0.0018	0.005	ND	ND	
Chloroform	0.0018	0.005	ND	ND	
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	
Vinyl acetate	0.0018	0.005	ND	ND	
Carbontetrachloride	0.0018	0.005	ND	ND	
1,1-Dichloropropene	0.0018	0.005	ND	ND	
1,2-Dichloroethane	0.0018	0.005	ND	ND	
Benzene	0.001	0.002	ND	ND	
Trichloroethene	0.0018	0.005	ND	ND	
1,2-Dichloropropane	0.0018	0.005	ND	ND	
Methyl methacrylate	0.0018	0.005	ND	ND	
Dibromomethane	0.0018	0.005	ND	ND	
Bromodichloromethane	0.0018	0.005	ND	ND	
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Toluene	0.001	0.002	ND	ND	
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Ethylmethacrylate	0.0018	0.005	ND	ND	
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	
Dibromochloromethane	0.0018	0.005	ND	ND	
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	
Tetrachloroethene	0.0018	0.005	ND	ND	
1,3-Dichloropropane	0.0018	0.005	ND	ND	
Chlorobenzene	0.0018	0.005	ND	ND	

RL=Reporting Limit; ND=Not Detected (Below MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0731-VOCS

Lab Job No.: B10G052
 Date Sampled: 7/28/2010
 Date Received: 7/28/2010
 Date Analyzed: 7/31/2010
 Date Reported: 8/2/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		07/31/10	07/31/10		
Dilution Factor		200	1		
Lab Sample I.D.		B10G052-1	Method Blank		
Client Sample I.D.		B-5-1			
Compound	MDL	RL			
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	
Total Xylene	0.002	0.004	ND	ND	
Styrene	0.0018	0.005	ND	ND	
Bromoform	0.0018	0.005	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	2.15	ND	
tert-Butylbenzene	0.0018	0.005	7.36	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	4.12	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	
n-Butylbenzene	0.0018	0.005	2.04	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	
Acetone	0.025	0.050	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	
MTBE	0.0018	0.005	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	
TAME	0.0018	0.005	ND	ND	
t-Butanol	0.010	0.020	ND	ND	
Ethanol	0.25	0.5	ND	ND	
Surrogate Recovery (%) QC Limit 70-130					
1,2-Dichloroethane-d4			70	100	
Toluene-d8			100	98	
4-Bromofluorobenzene			71	110	

RL=Reporting Limit; ND=Not Detected (Below MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10G052
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	7/31/2010
Batch No.:	0731-VOCS	Date Reported:	8/2/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.017	0.018	85	90	6	≤20	80-120
Benzene	ND	0.020	0.018	0.017	90	85	6	≤20	80-120
Trichloroethene	ND	0.020	0.018	0.018	90	90	0	≤20	80-120
Toluene	ND	0.020	0.022	0.020	110	100	10	≤20	80-120
Chlorobenzene	ND	0.020	0.021	0.019	105	95	10	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	100				105	96			70-130
Toluene-d8	98				97	99			70-130
4-Bromofluorobenzene	110				105	102			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10G052
Project:	Sunkist	Date Sampled:	7/28/2010
Project Site:	Sunkist, Ontario	Date Received:	7/28/2010
Matrix:	Soil	Date Analyzed:	7/31/2010
Batch No.:	AG31-GS (TPH-G)	Date Analyzed:	7/31/2010
Batch No.:	BG31-DS (TPH-D)	Date Reported:	8/2/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%)	Surrogate(%)
		C4-C12	C12-C24	C24-C40	For Gasoline	For Diesel
	RL	0.1	10	50		
B-5-1	B10G052-1	671	17100	ND	75	81

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: AG31-GS

Lab Job No.: B10G052
Lab Sample ID: LCS
Date Analyzed: 7/31/2010
Date Reported: 8/2/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method	Spike	LCS	LCSD	LCS	LCSD	%RPD	%RPD	%Rec
	Blank	Conc.			%Rec.	%rec.		Accept	Accept
								Limit	Limit
TPH-G	ND	1.0	1.19	1.21	119	121	2	≤20	80-120
Surrogate (%)	85				91	82			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10G052

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 7/31/2010

Batch No.: BG31-DS

Date Reported: 8/2/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	415	501	83	100	19	≤20	80-120
Surrogate (%)	82				84	86			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10G052
Project:	Sunkist	Date Sampled:	7/28/2010
Project Site:	Sunkist, Ontario	Date Received:	7/28/2010
Matrix:	Soil	Date Extracted:	7/30/2010
Extraction Method:	EPA 3550B	Date Analyzed:	7/31/2010
Batch No.:	0731-PES-S	Date Reported:	8/2/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		30*	1			
LAB SAMPLE I.D.		B10G052-1	Method Blank			
CLIENT SAMPLE I.D.		B-5-1				
COMPOUND	RL					
α-BHC	5	ND	ND			
γ-BHC	5	ND	ND			
Heptachlor	5	ND	ND			
Aldrin	5	ND	ND			
β-BHC	5	ND	ND			
δ-BHC	5	ND	ND			
α-Chlordane	5	ND	ND			
γ-Chlordane	5	ND	ND			
Heptachlor Epoxide	5	ND	ND			
Endosulfan I	5	ND	ND			
4,4'-DDE	5	ND	ND			
Dieldrin	5	ND	ND			
Endrin	5	ND	ND			
Endosulfan II	5	ND	ND			
4,4'-DDD	5	ND	ND			
4,4'-DDT	5	ND	ND			
Endrin Aldehyde	5	ND	ND			
Endosulfan Sulfate	5	ND	ND			
Methoxychlor	20	ND	ND			
Endrin Ketone	10	ND	ND			
Technical Chlordane	25	ND	ND			
Toxaphene	100	ND	ND			
Surrogate Recovery (%)		QC Limit: 65-140				
2,4,5,6-Tetrachloro-m-xylene		82	78			
Decachlorobiphenyl		76	91			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

*: High Dilution Factor Due to High Concentration of Diesel Range Organics.

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0731-PES-S

Lab Job No.: B10G052
Lab Sample ID: LCS
Date Analyzed: 7/31/2010
Date Reported: 8/2/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	19.1	18.5	96	93	3	≤30	50-150
Heptachlor	ND	20	18.2	16.4	91	82	10	≤30	50-150
Aldrin	ND	20	19.6	17.2	98	86	13	≤30	50-140
Dieldrin	ND	40	36.8	40.5	92	101	10	≤30	70-130
Endrin	ND	40	32.4	35.2	81	88	8	≤30	70-150
4,4'-DDT	ND	40	35.1	33.4	88	84	5	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	78				81	79			65-140
DCP	91				101	92			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10G052
Project:	Sunkist	Date Sampled:	7/28/2010
Project Site:	Sunkist, Ontario	Date Received:	7/28/2010
Matrix:	Soil	Date Extracted:	7/30/2010
Extraction Method:	EPA 3550B	Date Analyzed:	7/31/2010
Batch No.:	0731-PCBS	Date Reported:	8/2/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		30*	1			
LAB SAMPLE I.D.		B10G052-1	Method Blank			
CLIENT SAMPLE I.D.		B-5-1				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	ND	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		82	78			
Decachlorobiphenyl		76	91			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

*: High Dilution Factor Due to High Concentration of Diesel Range Organics.

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0731-PCBS

Lab Job No.: B10G052
Lab Sample ID: LCS
Date Analyzed: 7/31/2010
Date Reported: 8/2/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	425	436	85	87	3	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	78				85	81			65-140
DCP	91				79	75			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10G052
Project:	Sunkist	Date Sampled:	7/28/2010
Project Site:	Sunkist, Ontario	Date Received:	7/28/2010
Matrix:	Soil	Date Digested:	7/30/2010
Digestion Method:	3050B	Date Analyzed:	7/31/2010
Batch No.:	0731-MTS	Date Reported:	8/2/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10G052-1			Report Limit
		B-5-1			
Antimony (Sb)	6010B	ND			10
Arsenic (As)	6010B	4.39			0.5
Barium (Ba)	6010B	67.4			5.0
Beryllium (Be)	6010B	ND			2.5
Cadmium (Cd)	6010B	ND			2.5
Chromium (Cr)	6010B	36.8			2.5
Cobalt (Co)	6010B	8.87			2.5
Copper (Cu)	6010B	68.0			2.5
Lead (Pb)	6010B	68.4			2.5
Mercury (Hg)	7471A	ND			0.1
Molybdenum (Mo)	6010B	ND			5.0
Nickel (Ni)	6010B	18.0			2.5
Selenium (Se)	6010B	ND			0.5
Silver (Ag)	6010B	ND			2.5
Thallium (Tl)	6010B	ND			2.5
Vanadium (V)	6010B	34.6			5.0
Zinc (Zn)	6010B	47.7			2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10G052
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	7/31/2010
Batch No.:	0731-MTS	Date Reported:	8/2/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	125	111	101	89	81	9	≤20	80-120
Arsenic (As)	6010B	ND	25	21.3	22.4	85	90	5	≤20	80-120
Barium (Ba)	6010B	ND	25	23.2	21.5	93	86	8	≤20	80-120
Beryllium (Be)	6010B	ND	25	22.4	22.1	90	88	1	≤20	80-120
Cadmium (Cd)	6010B	ND	25	23.5	21.6	94	86	8	≤20	80-120
Chromium (Cr)	6010B	ND	25	22.5	23.6	90	94	5	≤20	80-120
Cobalt (Co)	6010B	ND	25	21.3	23.4	85	94	9	≤20	80-120
Copper (Cu)	6010B	ND	50	42.5	41.3	85	83	3	≤20	80-120
Lead (Pb)	6010B	ND	50	42.5	44.2	85	88.4	4	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.75	1.81	88	91	3	≤20	80-120
Molybdenum (Mo)	6010B	ND	25	24.6	25.1	98	100	2	≤20	80-120
Nickel (Ni)	6010B	ND	25	21.6	23.5	86	94	8	≤20	80-120
Selenium (Se)	6010B	ND	25	25.4	23.1	102	92	9	≤20	80-120
Silver (Ag)	6010B	ND	25	22.2	22.3	89	89	0	≤20	80-120
Thallium (Tl)	6010B	ND	25	21.6	22.5	86	90	4	≤20	80-120
Vanadium (V)	6010B	ND	125	112	105	90	84	6	≤20	80-120
Zinc (Zn)	6010B	ND	25	24.5	25.1	98	100	2	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10G052
Project :	Sunkist	Date Sampled:	7/28/2010
Project Site:	Sunkist, Ontario	Date Received:	7/28/2010
Matrix:	Soil	Date Extracted:	7/30/2010
Extraction Method:	3550B	Date Analyzed:	7/31/2010
Batch No.:	0731-SVOCS	Date Reported:	8/2/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		20*		
Lab Sample I.D.		B10G052-1		
Client Sample I.D.		B-5-1		
Compound	RL			
Naphthalene	0.025	ND		
Acenaphthylene	0.025	ND		
Acenaphthene	0.025	ND		
Fluorene	0.025	ND		
Phenanthrene	0.025	ND		
Anthracene	0.025	ND		
Fluoranthene	0.025	ND		
Pyrene	0.025	ND		
Benzo (a) anthracene	0.025	ND		
Chrysene	0.025	ND		
Benzo (b) fluoranthene	0.025	ND		
Benzo (k) fluoranthene	0.025	ND		
Benzo (a) pyrene	0.025	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND		
Dibenzo(a,h)anthracene	0.025	ND		
Benzo(g,h,i)perylene	0.025	ND		
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		65		
2-Fluorobiphenyl		71		
p-Terphenyl-d14		82		

ND: Not Detected (Below RL x Dilution Factor).

*: High Dilution Factor Due to High Concentration of Diesel Range Organics.

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10G052
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	7/31/2010
Batch No.:	0731-SVOCS	Date Reported:	8/2/2010

MB/LCS/LCSD Report

Unit: mg/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.21	0.19	84	76	10	≤30	50-150
Acenaphthylene	ND	0.25	0.22	0.17	88	68	26	≤30	50-150
Acenaphthene	ND	0.25	0.20	0.18	80	72	11	≤30	50-150
Fluorene	ND	0.25	0.26	0.23	104	92	12	≤30	50-150
Phenanthrene	ND	0.25	0.17	0.21	68	84	21	≤30	50-150
Anthracene	ND	0.25	0.18	0.20	72	80	11	≤30	50-150
Fluoranthene	ND	0.25	0.23	0.21	92	84	9	≤30	50-150
Pyrene	ND	0.25	0.17	0.16	68	64	6	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.20	0.18	80	72	11	≤30	50-150
Chrysene	ND	0.25	0.21	0.24	84	96	13	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.18	0.17	72	68	6	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.21	0.17	84	68	21	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.20	0.19	80	76	5	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.16	0.15	64	60	6	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.17	0.14	68	56	19	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.18	0.19	72	76	5	≤30	50-150
Nitrobenzene-d5 %Rec.	82				81	78			50-150
2-Fluorobiphenyl %Rec.	81				76	87			50-150
p-Terphenyl-d14 %Rec.	78				83	90			50-150

ND: Not Detected (Below RL).

CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions	
Address 17021 Beach Blvd H.B., Ca.		<input checked="" type="checkbox"/> Chilled	
Report Attention BEC	Phone # Fax: #	<input checked="" type="checkbox"/> Intact	
Project No./ Name		<input type="checkbox"/> Sample Seal	
Project Site Sunkist Outland		Sampled By Brian Bauer	

Analyses Requested

Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	8270C SIM PNAS	Remarks	
		Date	Time																	
B-5-1		7/28/2020	11:40am	soil			X					X	X		X					

Turn Around Time Requested

Rush 8 12 24 48 Hours

Normal

Relinquished By Brian Bauer	Company BEC	Date 7/28/2020	Time 3:46pm	Received By [Signature]	Company ABC	Date 7/28/2020	Time 3:46	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

8/5/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 7/28/2010
Lab Job No.: B10G052A

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 7/28/10 and analyzed by the following EPA methods:

WET Test (STLC Lead)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10G052A
Project:	Sunkist	Date Sampled:	7/28/2010
Project Site:	Sunkist, Ontario	Date Received:	7/28/2010
Matrix:	Water	Date Digested:	8/4/2010
Digestion Method:	3010C	Date Analyzed:	8/4/2010
Batch No.:	0804-MTW	Date Reported:	8/5/2010

WET Test (STLC)

Report Unit: mg/L (PPM)

Element	Method	B10G052-1			Reporting Limit
		B-5-1			
STLC Lead	EPA 6010B	0.95			0.1

Extraction Method: Waste Extraction Test (WET) Procedures, Title 22, Cal Wet 66700

Date Extracted: 8/2/2010 4:00PM to 8/4/2010 4:00PM

ABC Environmental Laboratories

Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Water
Batch No.: 0804-MTW

Lab Job No.: B10G052A
Lab Sample ID: LCS
Date Analyzed: 8/4/2010
Date Reported: 8/5/2010

MB/LCS/LCSD Report

Unit: mg/L

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Lead (Pb)	6010B	ND	50.0	41.5	46.8	83	94	12	≤20	80-120

ND: Not Detected (at the specified limit).

CHAIN OF CUSTODY

Client Name BEC			Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested															
Address 17011 Beach Blvd Hib, Ca.			<input checked="" type="checkbox"/> Chilled		EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	8270C SIM PNAS	STLC Lead	<input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal												
Report Attention BEC	Phone #	Fax: #	Sampled By Brian Bauer															<input checked="" type="checkbox"/> Intact		<input type="checkbox"/> Sample Seal										Remarks
Project No./ Name	Project Site Sunkist Ontario																													
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container												Remarks												
B-5-1	B10G052-1	7/28/2020	11:40am	soil				X											0: Requested on 8/2/10											

Relinquished By Brian Bauer	Company BEC	Date 7/28/2020	Time 3:46pm	Received By [Signature]	Company ABC	Date 7/28/2020	Time 3:46	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

8/2/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 7/29/2010
Lab Job No.: B10G056

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 7/29/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0731-VOCS

Lab Job No.: B10G056
 Date Sampled: 7/29/2010
 Date Received: 7/29/2010
 Date Analyzed: 7/31/2010
 Date Reported: 8/2/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			07/31/10	07/31/10	
Dilution Factor			1	1	
Lab Sample I.D.			B10G056-3	Method Blank	
Client Sample I.D.			L-13-3		
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	
Chloromethane	0.0018	0.005	ND	ND	
Vinyl Chloride	0.0018	0.005	ND	ND	
Bromomethane	0.0018	0.005	ND	ND	
Chloroethane	0.0018	0.005	ND	ND	
Trichlorofluoromethane	0.0018	0.005	ND	ND	
1,1-Dichloroethene	0.0018	0.005	ND	ND	
Carbon disulfide	0.0018	0.005	ND	ND	
Methylene chloride	0.0018	0.005	ND	ND	
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	
1,1-Dichloroethane	0.0018	0.005	ND	ND	
2,2-Dichloropropane	0.0018	0.005	ND	ND	
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	
Bromochloromethane	0.0018	0.005	ND	ND	
Chloroform	0.0018	0.005	ND	ND	
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	
Vinyl acetate	0.0018	0.005	ND	ND	
Carbontetrachloride	0.0018	0.005	ND	ND	
1,1-Dichloropropene	0.0018	0.005	ND	ND	
1,2-Dichloroethane	0.0018	0.005	ND	ND	
Benzene	0.001	0.002	ND	ND	
Trichloroethene	0.0018	0.005	ND	ND	
1,2-Dichloropropane	0.0018	0.005	ND	ND	
Methyl methacrylate	0.0018	0.005	ND	ND	
Dibromomethane	0.0018	0.005	ND	ND	
Bromodichloromethane	0.0018	0.005	ND	ND	
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Toluene	0.001	0.002	ND	ND	
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Ethylmethacrylate	0.0018	0.005	ND	ND	
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	
Dibromochloromethane	0.0018	0.005	ND	ND	
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	
Tetrachloroethene	0.0018	0.005	ND	ND	
1,3-Dichloropropane	0.0018	0.005	ND	ND	
Chlorobenzene	0.0018	0.005	ND	ND	

RL=Reporting Limit; ND=Not Detected (Below MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0731-VOCS

Lab Job No.: B10G056
 Date Sampled: 7/29/2010
 Date Received: 7/29/2010
 Date Analyzed: 7/31/2010
 Date Reported: 8/2/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		07/31/10	07/31/10		
Dilution Factor		1	1		
Lab Sample I.D.		B10G056-3	Method Blank		
Client Sample I.D.		L-13-3			
Compound	MDL	RL			
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	
Total Xylene	0.002	0.004	ND	ND	
Styrene	0.0018	0.005	ND	ND	
Bromoform	0.0018	0.005	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	
Naphthalene	0.0018	0.005	0.007	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	
Acetone	0.025	0.050	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	
MTBE	0.0018	0.005	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	
TAME	0.0018	0.005	ND	ND	
t-Butanol	0.010	0.020	ND	ND	
Ethanol	0.25	0.5	ND	ND	
Surrogate Recovery (%) QC Limit 70-130					
1,2-Dichloroethane-d4			81	100	
Toluene-d8			95	98	
4-Bromofluorobenzene			101	110	

RL=Reporting Limit; ND=Not Detected (Below MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0731-VOCS

Lab Job No.: B10G056
Lab Sample ID: LCS
Date Analyzed: 7/31/2010
Date Reported: 8/2/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.017	0.018	85	90	6	≤20	80-120
Benzene	ND	0.020	0.018	0.017	90	85	6	≤20	80-120
Trichloroethene	ND	0.020	0.018	0.018	90	90	0	≤20	80-120
Toluene	ND	0.020	0.022	0.020	110	100	10	≤20	80-120
Chlorobenzene	ND	0.020	0.021	0.019	105	95	10	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	100				105	96			70-130
Toluene-d8	98				97	99			70-130
4-Bromofluorobenzene	110				105	102			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10G056
Project:	Sunkist	Date Sampled:	7/29/2010
Project Site:	Sunkist, Ontario	Date Received:	7/29/2010
Matrix:	Soil	Date Analyzed:	7/31/2010
Batch No.:	AG31-GS (TPH-G)	Date Analyzed:	7/31/2010
Batch No.:	BG31-DS (TPH-D)	Date Reported:	8/2/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%)	Surrogate(%)
		C4-C12	C12-C24	C24-C40	For Gasoline	For Diesel
	RL	0.1	10	50		
L-13-3	B10G056-3	ND	14800	398	91	85

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10G056
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	7/31/2010
Batch No.:	AG31-GS	Date Reported:	8/2/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	1.19	1.21	119	121	2	≤20	80-120
Surrogate (%)	85				91	82			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10G056

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 7/31/2010

Batch No.: BG31-DS

Date Reported: 8/2/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	415	501	83	100	19	≤20	80-120
Surrogate (%)	82				84	86			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10G056
Project:	Sunkist	Date Sampled:	7/29/2010
Project Site:	Sunkist, Ontario	Date Received:	7/29/2010
Matrix:	Soil	Date Extracted:	7/30/2010
Extraction Method:	EPA 3550B	Date Analyzed:	7/31/2010
Batch No.:	0731-PES-S	Date Reported:	8/2/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1		
LAB SAMPLE I.D.		B10G056-3	Method Blank		
CLIENT SAMPLE I.D.		L-13-3			
COMPOUND	RL				
α-BHC	5	ND	ND		
γ-BHC	5	ND	ND		
Heptachlor	5	ND	ND		
Aldrin	5	ND	ND		
β-BHC	5	ND	ND		
δ-BHC	5	ND	ND		
α-Chlordane	5	ND	ND		
γ-Chlordane	5	ND	ND		
Heptachlor Epoxide	5	ND	ND		
Endosulfan I	5	ND	ND		
4,4'-DDE	5	ND	ND		
Dieldrin	5	ND	ND		
Endrin	5	ND	ND		
Endosulfan II	5	ND	ND		
4,4'-DDD	5	ND	ND		
4,4'-DDT	5	ND	ND		
Endrin Aldehyde	5	ND	ND		
Endosulfan Sulfate	5	ND	ND		
Methoxychlor	20	ND	ND		
Endrin Ketone	10	ND	ND		
Technical Chlordane	25	ND	ND		
Toxaphene	100	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140			
2,4,5,6-Tetrachloro-m-xylene		115	78		
Decachlorobiphenyl		130	91		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0731-PES-S

Lab Job No.: B10G056
Lab Sample ID: LCS
Date Analyzed: 7/31/2010
Date Reported: 8/2/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	19.1	18.5	96	93	3	≤30	50-150
Heptachlor	ND	20	18.2	16.4	91	82	10	≤30	50-150
Aldrin	ND	20	19.6	17.2	98	86	13	≤30	50-140
Dieldrin	ND	40	36.8	40.5	92	101	10	≤30	70-130
Endrin	ND	40	32.4	35.2	81	88	8	≤30	70-150
4,4'-DDT	ND	40	35.1	33.4	88	84	5	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	78				81	79			65-140
DCP	91				101	92			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10G056
Project:	Sunkist	Date Sampled:	7/29/2010
Project Site:	Sunkist, Ontario	Date Received:	7/29/2010
Matrix:	Soil	Date Extracted:	7/30/2010
Extraction Method:	EPA 3550B	Date Analyzed:	7/31/2010
Batch No.:	0731-PCBS	Date Reported:	8/2/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		2	1			
LAB SAMPLE I.D.		B10G056-3	Method Blank			
CLIENT SAMPLE I.D.		L-13-3				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	2370	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		115	78			
Decachlorobiphenyl		130	91			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0731-PCBS

Lab Job No.: B10G056
Lab Sample ID: LCS
Date Analyzed: 7/31/2010
Date Reported: 8/2/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	408	425	82	85	4	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	78				85	81			65-140
DCP	91				79	75			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10G056
Project:	Sunkist	Date Sampled:	7/29/2010
Project Site:	Sunkist, Ontario	Date Received:	7/29/2010
Matrix:	Soil	Date Digested:	7/30/2010
Digestion Method:	3050B	Date Analyzed:	7/31/2010
Batch No.:	0731-MTS	Date Reported:	8/2/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10G056-3			Report
		L-13-3			Limit
Antimony (Sb)	6010B	ND			10
Arsenic (As)	6010B	4.79			0.5
Barium (Ba)	6010B	52.6			5.0
Beryllium (Be)	6010B	ND			2.5
Cadmium (Cd)	6010B	ND			2.5
Chromium (Cr)	6010B	33.2			2.5
Cobalt (Co)	6010B	5.58			2.5
Copper (Cu)	6010B	11.6			2.5
Lead (Pb)	6010B	4.23			2.5
Mercury (Hg)	7471A	ND			0.1
Molybdenum (Mo)	6010B	ND			5.0
Nickel (Ni)	6010B	7.5			2.5
Selenium (Se)	6010B	ND			0.5
Silver (Ag)	6010B	ND			2.5
Thallium (Tl)	6010B	ND			2.5
Vanadium (V)	6010B	35.5			5.0
Zinc (Zn)	6010B	247			2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10G056
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	7/31/2010
Batch No.:	0731-MTS	Date Reported:	8/2/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	125	111	101	89	81	9	≤20	80-120
Arsenic (As)	6010B	ND	25	21.3	22.4	85	90	5	≤20	80-120
Barium (Ba)	6010B	ND	25	23.2	21.5	93	86	8	≤20	80-120
Beryllium (Be)	6010B	ND	25	22.4	22.1	90	88	1	≤20	80-120
Cadmium (Cd)	6010B	ND	25	23.5	21.6	94	86	8	≤20	80-120
Chromium (Cr)	6010B	ND	25	22.5	23.6	90	94	5	≤20	80-120
Cobalt (Co)	6010B	ND	25	21.3	23.4	85	94	9	≤20	80-120
Copper (Cu)	6010B	ND	50	42.5	41.3	85	83	3	≤20	80-120
Lead (Pb)	6010B	ND	50	42.5	44.2	85	88.4	4	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.75	1.81	88	91	3	≤20	80-120
Molybdenum (Mo)	6010B	ND	25	24.6	25.1	98	100	2	≤20	80-120
Nickel (Ni)	6010B	ND	25	21.6	23.5	86	94	8	≤20	80-120
Selenium (Se)	6010B	ND	25	25.4	23.1	102	92	9	≤20	80-120
Silver (Ag)	6010B	ND	25	22.2	22.3	89	89	0	≤20	80-120
Thallium (Tl)	6010B	ND	25	21.6	22.5	86	90	4	≤20	80-120
Vanadium (V)	6010B	ND	125	112	105	90	84	6	≤20	80-120
Zinc (Zn)	6010B	ND	25	24.5	25.1	98	100	2	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10G056
Project :	Sunkist	Date Sampled:	7/29/2010
Project Site:	Sunkist, Ontario	Date Received:	7/29/2010
Matrix:	Soil	Date Extracted:	7/30/2010
Extraction Method:	3550B	Date Analyzed:	7/31/2010
Batch No.:	0731-SVOCS	Date Reported:	8/2/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		1		
Lab Sample I.D.		B10G056-3		
Client Sample I.D.		L-13-3		
Compound	RL			
Naphthalene	0.025	ND		
Acenaphthylene	0.025	ND		
Acenaphthene	0.025	ND		
Fluorene	0.025	ND		
Phenanthrene	0.025	ND		
Anthracene	0.025	ND		
Fluoranthene	0.025	ND		
Pyrene	0.025	ND		
Benzo (a) anthracene	0.025	ND		
Chrysene	0.025	ND		
Benzo (b) fluoranthene	0.025	ND		
Benzo (k) fluoranthene	0.025	ND		
Benzo (a) pyrene	0.025	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND		
Dibenzo(a,h)anthracene	0.025	ND		
Benzo(g,h,i)perylene	0.025	ND		
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		75		
2-Fluorobiphenyl		86		
p-Terphenyl-d14		92		

ND: Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10G056
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	7/31/2010
Batch No.:	0731-SVOCS	Date Reported:	8/2/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.21	0.19	84	76	10	≤30	50-150
Acenaphthylene	ND	0.25	0.22	0.17	88	68	26	≤30	50-150
Acenaphthene	ND	0.25	0.20	0.18	80	72	11	≤30	50-150
Fluorene	ND	0.25	0.26	0.23	104	92	12	≤30	50-150
Phenanthrene	ND	0.25	0.17	0.21	68	84	21	≤30	50-150
Anthracene	ND	0.25	0.18	0.20	72	80	11	≤30	50-150
Fluoranthene	ND	0.25	0.23	0.21	92	84	9	≤30	50-150
Pyrene	ND	0.25	0.17	0.16	68	64	6	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.20	0.18	80	72	11	≤30	50-150
Chrysene	ND	0.25	0.21	0.24	84	96	13	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.18	0.17	72	68	6	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.21	0.17	84	68	21	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.20	0.19	80	76	5	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.16	0.15	64	60	6	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.17	0.14	68	56	19	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.18	0.19	72	76	5	≤30	50-150
Nitrobenzene-d5 %Rec.	82				81	78			50-150
2-Fluorobiphenyl %Rec.	81				76	87			50-150
p-Terphenyl-d14 %Rec.	78				83	90			50-150

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested <input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal																									
Address 17012 Beach Blvd. H.B. Ca.		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal																																					
Report Attention BEC	Phone # Fax: #	Sampled By Brian Bauer		<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B (BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td>8270C sim PNAH</td> </tr> <tr> <td style="text-align: center;">X</td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> <td style="text-align: center;">X</td> <td></td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> </tr> </table>										EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	8270C sim PNAH	X					X	X		X		X	X	Remarks	
EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)											EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	8270C sim PNAH																		
X					X	X		X		X	X																												
Project No./ Name	Project Site Sunkist Ontario																																						
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container																																	
		Date	Time																																				
L-13-1	B1067056-1	7/29/20	7:40am	soil			X					X	X		X		X	X																					
L-13-2	↓ 2	7/29/20	7:40am	soil			X					X	X		X		X	X																					
L-13-3	↓ 3	7/29/20	12:00pm	soil			X					X	X		X		X	X																					
C-4-1	↓ 4	7/29/20	2:15pm	soil			X					X	X		X		X	X																					

Relinquished By Brian Bauer	Company BEC	Date 7/29/20	Time 3:20pm	Received By [Signature]	Company ABC Labs	Date 7/29/10	Time 3:20 PM	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

8/9/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 8/4/2010
Lab Job No.: B10H005

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 8/4/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0806-VOCS

Lab Job No.: B10H005
 Date Sampled: 8/4/2010
 Date Received: 8/4/2010
 Date Analyzed: 8/6/2010
 Date Reported: 8/9/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			08/06/10	08/06/10	
Dilution Factor			25*	1	
Lab Sample I.D.			B10H005-1	Method Blank	
Client Sample I.D.			B-5-2		
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	
Chloromethane	0.0018	0.005	ND	ND	
Vinyl Chloride	0.0018	0.005	ND	ND	
Bromomethane	0.0018	0.005	ND	ND	
Chloroethane	0.0018	0.005	ND	ND	
Trichlorofluoromethane	0.0018	0.005	ND	ND	
1,1-Dichloroethene	0.0018	0.005	ND	ND	
Carbon disulfide	0.0018	0.005	ND	ND	
Methylene chloride	0.0018	0.005	ND	ND	
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	
1,1-Dichloroethane	0.0018	0.005	ND	ND	
2,2-Dichloropropane	0.0018	0.005	ND	ND	
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	
Bromochloromethane	0.0018	0.005	ND	ND	
Chloroform	0.0018	0.005	ND	ND	
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	
Vinyl acetate	0.0018	0.005	ND	ND	
Carbontetrachloride	0.0018	0.005	ND	ND	
1,1-Dichloropropene	0.0018	0.005	ND	ND	
1,2-Dichloroethane	0.0018	0.005	ND	ND	
Benzene	0.001	0.002	ND	ND	
Trichloroethene	0.0018	0.005	ND	ND	
1,2-Dichloropropane	0.0018	0.005	ND	ND	
Methyl methacrylate	0.0018	0.005	ND	ND	
Dibromomethane	0.0018	0.005	ND	ND	
Bromodichloromethane	0.0018	0.005	ND	ND	
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Toluene	0.001	0.002	ND	ND	
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Ethylmethacrylate	0.0018	0.005	ND	ND	
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	
Dibromochloromethane	0.0018	0.005	ND	ND	
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	
Tetrachloroethene	0.0018	0.005	ND	ND	
1,3-Dichloropropane	0.0018	0.005	ND	ND	
Chlorobenzene	0.0018	0.005	ND	ND	

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

*: High Dilution Factor Due To High Concentration of Hydrocarbons Other Than 8260B Compounds.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H005
Project :	Sunkist	Date Sampled:	8/4/2010
Project Site:	Sunkist, Ontario	Date Received:	8/4/2010
Matrix:	Soil	Date Analyzed:	8/6/2010
Batch No.:	0806-VOCS	Date Reported:	8/9/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		08/06/10	08/06/10		
Dilution Factor		25*	1		
Lab Sample I.D.		B10H005-1	Method Blank		
Client Sample I.D.		B-5-2			
Compound	MDL	RL			
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	
Total Xylene	0.002	0.004	ND	ND	
Styrene	0.0018	0.005	ND	ND	
Bromoform	0.0018	0.005	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	
Acetone	0.025	0.050	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	
MTBE	0.0018	0.005	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	
TAME	0.0018	0.005	ND	ND	
t-Butanol	0.010	0.020	ND	ND	
Ethanol	0.25	0.5	ND	ND	
Surrogate Recovery (%) QC Limit 70-130					
1,2-Dichloroethane-d4			86	81	
Toluene-d8			91	95	
4-Bromofluorobenzene			95	96	

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

*: High Dilution Factor Due To High Concentration of Hydrocarbons Other Than 8260B Compounds.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0806-VOCS

Lab Job No.: B10H005
Lab Sample ID: LCS
Date Analyzed: 8/6/2010
Date Reported: 8/9/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.017	0.016	85	80	6	≤20	80-120
Benzene	ND	0.020	0.017	0.020	85	100	16	≤20	80-120
Trichloroethene	ND	0.020	0.018	0.021	90	105	15	≤20	80-120
Toluene	ND	0.020	0.021	0.023	105	115	9	≤20	80-120
Chlorobenzene	ND	0.020	0.020	0.023	100	115	14	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	81				91	95			70-130
Toluene-d8	95				95	98			70-130
4-Bromofluorobenzene	96				101	102			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H005
Project:	Sunkist	Date Sampled:	8/4/2010
Project Site:	Sunkist, Ontario	Date Received:	8/4/2010
Matrix:	Soil	Date Analyzed:	8/6/2010
Batch No.:	AH06-GS (TPH-G)	Date Analyzed:	8/7/2010
Batch No.:	BH07-DS (TPH-D)	Date Reported:	8/9/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%)	Surrogate(%)
		C4-C12	C12-C24	C24-C40	For Gasoline	For Diesel
	RL	0.1	10	50		
B-5-2	B10H005-1	38.4	728	ND	91	85

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: AH06-GS

Lab Job No.: B10H005
Lab Sample ID: LCS
Date Analyzed: 8/6/2010
Date Reported: 8/9/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	1.12	1.19	112	119	6	≤20	80-120
Surrogate (%)	101				102	95			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: BH07-DS

Lab Job No.: B10H005
Lab Sample ID: LCS
Date Analyzed: 8/7/2010
Date Reported: 8/9/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	425	478	85	96	12	≤20	80-120
Surrogate (%)	85				81	86			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H005
Project:	Sunkist	Date Sampled:	8/4/2010
Project Site:	Sunkist, Ontario	Date Received:	8/4/2010
Matrix:	Soil	Date Extracted:	8/6/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/7/2010
Batch No.:	0807-PES-S	Date Reported:	8/9/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1		
LAB SAMPLE I.D.		B10H005-1	Method Blank		
CLIENT SAMPLE I.D.		B-5-2			
COMPOUND	RL				
α-BHC	5	ND	ND		
γ-BHC	5	ND	ND		
Heptachlor	5	ND	ND		
Aldrin	5	ND	ND		
β-BHC	5	ND	ND		
δ-BHC	5	ND	ND		
α-Chlordane	5	ND	ND		
γ-Chlordane	5	ND	ND		
Heptachlor Epoxide	5	ND	ND		
Endosulfan I	5	ND	ND		
4,4'-DDE	5	ND	ND		
Dieldrin	5	ND	ND		
Endrin	5	ND	ND		
Endosulfan II	5	ND	ND		
4,4'-DDD	5	ND	ND		
4,4'-DDT	5	ND	ND		
Endrin Aldehyde	5	ND	ND		
Endosulfan Sulfate	5	ND	ND		
Methoxychlor	20	ND	ND		
Endrin Ketone	10	ND	ND		
Technical Chlordane	25	ND	ND		
Toxaphene	100	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140			
2,4,5,6-Tetrachloro-m-xylene		91	85		
Decachlorobiphenyl		102	89		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0807-PES-S

Lab Job No.: B10H005
Lab Sample ID: LCS
Date Analyzed: 8/7/2010
Date Reported: 8/9/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	17.1	18.1	86	91	6	≤30	50-150
Heptachlor	ND	20	18.2	19.5	91	98	7	≤30	50-150
Aldrin	ND	20	20.2	21.2	101	106	5	≤30	50-140
Dieldrin	ND	40	39.5	42.5	99	106	7	≤30	70-130
Endrin	ND	40	40.1	37.5	100	94	7	≤30	70-150
4,4'-DDT	ND	40	36.5	38.2	91	96	5	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	85				86	95			65-140
DCP	89				87	98			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H005
Project:	Sunkist	Date Sampled:	8/4/2010
Project Site:	Sunkist, Ontario	Date Received:	8/4/2010
Matrix:	Soil	Date Extracted:	8/6/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/7/2010
Batch No.:	0807-PCBS	Date Reported:	8/9/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1			
LAB SAMPLE I.D.		B10H005-1	Method Blank			
CLIENT SAMPLE I.D.		B-5-2				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	186	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		91	85			
Decachlorobiphenyl		102	89			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0807-PCBS

Lab Job No.: B10H005
Lab Sample ID: LCS
Date Analyzed: 8/7/2010
Date Reported: 8/9/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	457	505	91	101	10	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	81				86	89			65-140
DCP	92				95	101			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H005
Project:	Sunkist	Date Sampled:	8/4/2010
Project Site:	Sunkist, Ontario	Date Received:	8/4/2010
Matrix:	Soil	Date Digested:	8/6/2010
Digestion Method:	3050B	Date Analyzed:	8/7/2010
Batch No.:	0807-MTS	Date Reported:	8/9/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10H005-1				Report Limit
		B-5-2				
Antimony (Sb)	6010B	ND				10
Arsenic (As)	6010B	6.72				0.5
Barium (Ba)	6010B	82.1				5.0
Beryllium (Be)	6010B	ND				2.5
Cadmium (Cd)	6010B	ND				2.5
Chromium (Cr)	6010B	29.2				2.5
Cobalt (Co)	6010B	11.1				2.5
Copper (Cu)	6010B	103				2.5
Lead (Pb)	6010B	30.1				2.5
Mercury (Hg)	7471A	ND				0.1
Molybdenum (Mo)	6010B	ND				5.0
Nickel (Ni)	6010B	20.6				2.5
Selenium (Se)	6010B	ND				0.5
Silver (Ag)	6010B	ND				2.5
Thallium (Tl)	6010B	ND				2.5
Vanadium (V)	6010B	38.4				5.0
Zinc (Zn)	6010B	163				2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H005
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/7/2010
Batch No.:	0807-MTS	Date Reported:	8/9/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	125	119	105	95	84	13	≤20	80-120
Arsenic (As)	6010B	ND	25	22.3	21.5	89	86	4	≤20	80-120
Barium (Ba)	6010B	ND	25	21.3	22.5	85	90	5	≤20	80-120
Beryllium (Be)	6010B	ND	25	25.5	21.4	102	86	17	≤20	80-120
Cadmium (Cd)	6010B	ND	25	26.5	24.6	106	98	7	≤20	80-120
Chromium (Cr)	6010B	ND	25	22.3	22.5	89	90	1	≤20	80-120
Cobalt (Co)	6010B	ND	25	24.5	23.3	98	93	5	≤20	80-120
Copper (Cu)	6010B	ND	50	44.6	51.2	89	102	14	≤20	80-120
Lead (Pb)	6010B	ND	50	50.1	54.2	100	108	8	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.85	1.92	93	96	4	≤20	80-120
Molybdenum (Mo)	6010B	ND	25	20.7	22.1	83	88	7	≤20	80-120
Nickel (Ni)	6010B	ND	25	24.0	23.4	96	94	3	≤20	80-120
Selenium (Se)	6010B	ND	25	26.6	24.5	106	98	8	≤20	80-120
Silver (Ag)	6010B	ND	25	22.2	24.5	89	98	10	≤20	80-120
Thallium (Tl)	6010B	ND	25	21.2	24.5	85	98	14	≤20	80-120
Vanadium (V)	6010B	ND	125	105	115	84	92	9	≤20	80-120
Zinc (Zn)	6010B	ND	25	21.6	22.4	86	90	4	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H005
Project :	Sunkist	Date Sampled:	8/4/2010
Project Site:	Sunkist, Ontario	Date Received:	8/4/2010
Matrix:	Soil	Date Extracted:	8/6/2010
Extraction Method:	3550B	Date Analyzed:	8/7/2010
Batch No.:	0807-SVOCS	Date Reported:	8/9/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		10*		
Lab Sample I.D.		B10H005-1		
Client Sample I.D.		B-5-2		
Compound	RL			
Naphthalene	0.025	ND		
Acenaphthylene	0.025	ND		
Acenaphthene	0.025	ND		
Fluorene	0.025	ND		
Phenanthrene	0.025	ND		
Anthracene	0.025	ND		
Fluoranthene	0.025	ND		
Pyrene	0.025	ND		
Benzo (a) anthracene	0.025	ND		
Chrysene	0.025	ND		
Benzo (b) fluoranthene	0.025	ND		
Benzo (k) fluoranthene	0.025	ND		
Benzo (a) pyrene	0.025	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND		
Dibenzo(a,h)anthracene	0.025	ND		
Benzo(g,h,i)perylene	0.025	ND		
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		81		
2-Fluorobiphenyl		78		
p-Terphenyl-d14		79		

ND: Not Detected (Below RL x Dilution Factor).

*: High Dilution Factor Due To High Concentration of Hydrocarbons Other Than PAHs.

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H005
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/7/2010
Batch No.:	0807-SVOCS	Date Reported:	8/9/2010

MB/LCS/LCSD Report

Unit: mg/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.21	0.20	84	80	5	≤30	50-150
Acenaphthylene	ND	0.25	0.17	0.18	68	72	6	≤30	50-150
Acenaphthene	ND	0.25	0.21	0.23	84	92	9	≤30	50-150
Fluorene	ND	0.25	0.16	0.19	64	76	17	≤30	50-150
Phenanthrene	ND	0.25	0.23	0.22	92	88	4	≤30	50-150
Anthracene	ND	0.25	0.23	0.26	92	104	12	≤30	50-150
Fluoranthene	ND	0.25	0.17	0.16	68	64	6	≤30	50-150
Pyrene	ND	0.25	0.22	0.18	88	72	20	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.17	0.21	68	84	21	≤30	50-150
Chrysene	ND	0.25	0.20	0.17	80	68	16	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.17	0.19	68	76	11	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.16	0.18	64	72	12	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.21	0.17	84	68	21	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.17	0.18	68	72	6	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.19	0.15	76	60	24	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.26	0.24	104	96	8	≤30	50-150
Nitrobenzene-d5 %Rec.	81				71	68			50-150
2-Fluorobiphenyl %Rec.	85				69	72			50-150
p-Terphenyl-d14 %Rec.	78				81	79			50-150

ND: Not Detected (Below RL).



Environmental Laboratories, Inc.

1640B S. Grove Ave., Ontario, CA 91761
Tel: 562-413-8343
Tel/ Fax: 909-923-8628

CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested	
Address <u>17011 Beach Blvd.</u>		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal		EPA8260B (VOCs & Oxygenates) <input checked="" type="checkbox"/> EPA8260B(BTEX & Oxygenates) <input type="checkbox"/> EPA8021B (BTEX & MTBE) <input type="checkbox"/> EPA8015M / 8015B (Gasoline) <input type="checkbox"/> EPA8015M / 8015B (Diesel) <input type="checkbox"/> EPA8081A (Organochlorine Pesticides) <input checked="" type="checkbox"/> EPA 8082 (PCBs) <input checked="" type="checkbox"/> EPA418.1 (TRPH) <input type="checkbox"/> EPA8015M (Carbon Chain) <input checked="" type="checkbox"/> EPA 7000s (Metals) <input type="checkbox"/> CAM 17 Metals <input checked="" type="checkbox"/> <u>8270c sim PM4s</u>										<input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal	
Report Attention	Phone # <u>877-232-4620</u> Fax: #													Sampled By <u>Brian Bauer</u>	
Project No./ Name	Project Site <u>Sunkist Ontario</u>														

Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	Analyses Requested										Remarks	
		Date	Time				EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)		CAM 17 Metals
<u>B-5-2</u>	<u>BIOH005-1</u>	<u>8/4/10</u>	<u>3:00pm</u>	<u>soil</u>			<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Relinquished By <u>Brian Bauer</u>	Company <u>BEC</u>	Date <u>8/4/10</u>	Time <u>3:35pm</u>	Received By <u>[Signature]</u>	Company <u>ABC</u>	Date <u>8/4/10</u>	Time <u>3:35pm</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product, Preservative Code: IC=Ice, HC=HCl, HN=HNO3, SH=NaOH, ST=Na2S2O3, HS=H2SO4, * Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST= Steel Tube, B= Brass Tube, P=Plastic Bottle, V=VOA Vial, E= EnCore

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

8/9/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 8/5/2010
Lab Job No.: B10H006

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 8/5/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0806-VOCS

Lab Job No.: B10H006
 Date Sampled: 8/5/2010
 Date Received: 8/5/2010
 Date Analyzed: 8/6/2010
 Date Reported: 8/9/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			08/06/10	08/06/10	08/06/10
Dilution Factor			1	1	1
Lab Sample I.D.			B10H006-1	B10H006-2	Method Blank
Client Sample I.D.			B-4-1	B-4-2	
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	ND
Chloromethane	0.0018	0.005	ND	ND	ND
Vinyl Chloride	0.0018	0.005	ND	ND	ND
Bromomethane	0.0018	0.005	ND	ND	ND
Chloroethane	0.0018	0.005	ND	ND	ND
Trichlorofluoromethane	0.0018	0.005	ND	ND	ND
1,1-Dichloroethene	0.0018	0.005	ND	ND	ND
Carbon disulfide	0.0018	0.005	ND	ND	ND
Methylene chloride	0.0018	0.005	ND	ND	ND
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	ND
1,1-Dichloroethane	0.0018	0.005	ND	ND	ND
2,2-Dichloropropane	0.0018	0.005	ND	ND	ND
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	ND
Bromochloromethane	0.0018	0.005	ND	ND	ND
Chloroform	0.0018	0.005	ND	ND	ND
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	ND
Vinyl acetate	0.0018	0.005	ND	ND	ND
Carbontetrachloride	0.0018	0.005	ND	ND	ND
1,1-Dichloropropene	0.0018	0.005	ND	ND	ND
1,2-Dichloroethane	0.0018	0.005	ND	ND	ND
Benzene	0.001	0.002	ND	ND	ND
Trichloroethene	0.0018	0.005	ND	ND	ND
1,2-Dichloropropane	0.0018	0.005	ND	ND	ND
Methyl methacrylate	0.0018	0.005	ND	ND	ND
Dibromomethane	0.0018	0.005	ND	ND	ND
Bromodichloromethane	0.0018	0.005	ND	ND	ND
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	ND
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	ND
Toluene	0.001	0.002	ND	ND	ND
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	ND
Ethylmethacrylate	0.0018	0.005	ND	ND	ND
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	ND
Dibromochloromethane	0.0018	0.005	ND	ND	ND
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	ND
Tetrachloroethene	0.0018	0.005	ND	ND	ND
1,3-Dichloropropane	0.0018	0.005	ND	ND	ND
Chlorobenzene	0.0018	0.005	ND	ND	ND

RL=Reporting Limit; ND=Not Detected (Below MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H006
Project :	Sunkist	Date Sampled:	8/5/2010
Project Site:	Sunkist, Ontario	Date Received:	8/5/2010
Matrix:	Soil	Date Analyzed:	8/6/2010
Batch No.:	0806-VOCS	Date Reported:	8/9/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			08/06/10	08/06/10	08/06/10	
Dilution Factor			1	1	1	
Lab Sample I.D.			B10H006-1	B10H006-2	Method Blank	
Client Sample I.D.			B-4-1	B-4-2		
Compound	MDL	RL				
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	ND	
Total Xylene	0.002	0.004	ND	ND	ND	
Styrene	0.0018	0.005	ND	ND	ND	
Bromoform	0.0018	0.005	ND	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	ND	
Acetone	0.025	0.050	ND	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	ND	
MTBE	0.0018	0.005	ND	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	ND	
TAME	0.0018	0.005	ND	ND	ND	
t-Butanol	0.010	0.020	ND	ND	ND	
Ethanol	0.25	0.5	ND	ND	ND	
Surrogate Recovery (%) QC Limit 70-130						
1,2-Dichloroethane-d4			78	82	81	
Toluene-d8			85	84	95	
4-Bromofluorobenzene			92	89	96	

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H006
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/6/2010
Batch No.:	0806-VOCS	Date Reported:	8/9/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.017	0.016	85	80	6	≤20	80-120
Benzene	ND	0.020	0.017	0.020	85	100	16	≤20	80-120
Trichloroethene	ND	0.020	0.018	0.021	90	105	15	≤20	80-120
Toluene	ND	0.020	0.021	0.023	105	115	9	≤20	80-120
Chlorobenzene	ND	0.020	0.020	0.023	100	115	14	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	81				91	95			70-130
Toluene-d8	95				95	98			70-130
4-Bromofluorobenzene	96				101	102			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H006
Project:	Sunkist	Date Sampled:	8/5/2010
Project Site:	Sunkist, Ontario	Date Received:	8/5/2010
Matrix:	Soil	Date Analyzed:	8/6/2010
Batch No.:	AH06-GS (TPH-G)	Date Analyzed:	8/7/2010
Batch No.:	BH07-DS (TPH-D)	Date Reported:	8/9/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%)	Surrogate(%)
		C4-C12	C12-C24	C24-C40	For Gasoline	For Diesel
	RL	0.1	10	50		
B-4-1	B10H006-1	ND	ND	ND	85	81
B-4-2	B10H006-2	ND	478	ND	92	91

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline)

Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H006
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/6/2010
Batch No.:	AH06-GS	Date Reported:	8/9/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method	Spike	LCS	LCSD	LCS	LCSD	%RPD	%RPD	%Rec
	Blank	Conc.			%Rec.	%rec.		Accept	Accept
								Limit	Limit
TPH-G	ND	1.0	1.12	1.19	112	119	6	≤20	80-120
Surrogate (%)	101				102	95			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10H006

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 8/7/2010

Batch No.: BH07-DS

Date Reported: 8/9/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	425	478	85	96	12	≤20	80-120
Surrogate (%)	85				81	86			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H006
Project:	Sunkist	Date Sampled:	8/5/2010
Project Site:	Sunkist, Ontario	Date Received:	8/5/2010
Matrix:	Soil	Date Extracted:	8/6/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/7/2010
Batch No.:	0807-PES-S	Date Reported:	8/9/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1	1		
LAB SAMPLE I.D.		B10H006-1	B10H006-2	Method Blank		
CLIENT SAMPLE I.D.		B-4-1	B-4-2			
COMPOUND	RL					
α-BHC	5	ND	ND	ND		
γ-BHC	5	ND	ND	ND		
Heptachlor	5	ND	ND	ND		
Aldrin	5	ND	ND	ND		
β-BHC	5	ND	ND	ND		
δ-BHC	5	ND	ND	ND		
α-Chlordane	5	ND	9.72	ND		
γ-Chlordane	5	ND	ND	ND		
Heptachlor Epoxide	5	ND	ND	ND		
Endosulfan I	5	ND	ND	ND		
4,4'-DDE	5	ND	84.9	ND		
Dieldrin	5	ND	ND	ND		
Endrin	5	ND	ND	ND		
Endosulfan II	5	ND	ND	ND		
4,4'-DDD	5	ND	17.9	ND		
4,4'-DDT	5	ND	ND	ND		
Endrin Aldehyde	5	ND	ND	ND		
Endosulfan Sulfate	5	ND	ND	ND		
Methoxychlor	20	ND	ND	ND		
Endrin Ketone	10	ND	ND	ND		
Technical Chlordane	25	ND	ND	ND		
Toxaphene	100	ND	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		81	92	85		
Decachlorobiphenyl		95	101	89		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0807-PES-S

Lab Job No.: B10H006
Lab Sample ID: LCS
Date Analyzed: 8/7/2010
Date Reported: 8/9/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	17.1	18.1	86	91	6	≤30	50-150
Heptachlor	ND	20	18.2	19.5	91	98	7	≤30	50-150
Aldrin	ND	20	20.2	21.2	101	106	5	≤30	50-140
Dieldrin	ND	40	39.5	42.5	99	106	7	≤30	70-130
Endrin	ND	40	40.1	37.5	100	94	7	≤30	70-150
4,4'-DDT	ND	40	36.5	38.2	91	96	5	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	85				86	95			65-140
DCP	89				87	98			65-140

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H006
Project:	Sunkist	Date Sampled:	8/5/2010
Project Site:	Sunkist, Ontario	Date Received:	8/5/2010
Matrix:	Soil	Date Extracted:	8/6/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/7/2010
Batch No.:	0807-PCBS	Date Reported:	8/9/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1		
LAB SAMPLE I.D.		B10H006-1	B10H006-2	Method Blank		
CLIENT SAMPLE I.D.		B-4-1	B-4-2			
COMPOUND	RL					
PCB-1016	25	ND	ND	ND		
PCB-1221	50	ND	ND	ND		
PCB-1232	25	ND	ND	ND		
PCB-1242	25	ND	ND	ND		
PCB-1248	25	ND	ND	ND		
PCB-1254	25	ND	975	ND		
PCB-1260	25	ND	ND	ND		
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		81	92	85		
Decachlorobiphenyl		95	101	89		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0807-PCBS

Lab Job No.: B10H006
Lab Sample ID: LCS
Date Analyzed: 8/7/2010
Date Reported: 8/9/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	457	505	91	101	10	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	81				86	89			65-140
DCP	92				95	101			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H006
Project:	Sunkist	Date Sampled:	8/5/2010
Project Site:	Sunkist, Ontario	Date Received:	8/5/2010
Matrix:	Soil	Date Digested:	8/6/2010
Digestion Method:	3050B	Date Analyzed:	8/7/2010
Batch No.:	0807-MTS	Date Reported:	8/9/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10H006-1	B10H006-2			Report Limit
		B-4-1	B-4-2			
Antimony (Sb)	6010B	ND	ND			10
Arsenic (As)	6010B	5.32	4.48			0.5
Barium (Ba)	6010B	86.9	63.6			5.0
Beryllium (Be)	6010B	ND	ND			2.5
Cadmium (Cd)	6010B	ND	ND			2.5
Chromium (Cr)	6010B	21.7	22.6			2.5
Cobalt (Co)	6010B	9.05	9.61			2.5
Copper (Cu)	6010B	31.6	52.0			2.5
Lead (Pb)	6010B	45.3	20.9			2.5
Mercury (Hg)	7471A	ND	0.65			0.1
Molybdenum (Mo)	6010B	ND	ND			5.0
Nickel (Ni)	6010B	9.99	10.9			2.5
Selenium (Se)	6010B	ND	ND			0.5
Silver (Ag)	6010B	ND	ND			2.5
Thallium (Tl)	6010B	ND	ND			2.5
Vanadium (V)	6010B	41.9	40.1			5.0
Zinc (Zn)	6010B	103	81.3			2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H006
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/7/2010
Batch No.:	0807-MTS	Date Reported:	8/9/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	125	119	105	95	84	13	≤20	80-120
Arsenic (As)	6010B	ND	25	22.3	21.5	89	86	4	≤20	80-120
Barium (Ba)	6010B	ND	25	21.3	22.5	85	90	5	≤20	80-120
Beryllium (Be)	6010B	ND	25	25.5	21.4	102	86	17	≤20	80-120
Cadmium (Cd)	6010B	ND	25	26.5	24.6	106	98	7	≤20	80-120
Chromium (Cr)	6010B	ND	25	22.3	22.5	89	90	1	≤20	80-120
Cobalt (Co)	6010B	ND	25	24.5	23.3	98	93	5	≤20	80-120
Copper (Cu)	6010B	ND	50	44.6	51.2	89	102	14	≤20	80-120
Lead (Pb)	6010B	ND	50	50.1	54.2	100	108	8	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.85	1.92	93	96	4	≤20	80-120
Molybdenum (Mo)	6010B	ND	25	20.7	22.1	83	88	7	≤20	80-120
Nickel (Ni)	6010B	ND	25	24.0	23.4	96	94	3	≤20	80-120
Selenium (Se)	6010B	ND	25	26.6	24.5	106	98	8	≤20	80-120
Silver (Ag)	6010B	ND	25	22.2	24.5	89	98	10	≤20	80-120
Thallium (Tl)	6010B	ND	25	21.2	24.5	85	98	14	≤20	80-120
Vanadium (V)	6010B	ND	125	105	115	84	92	9	≤20	80-120
Zinc (Zn)	6010B	ND	25	21.6	22.4	86	90	4	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H006
Project :	Sunkist	Date Sampled:	8/5/2010
Project Site:	Sunkist, Ontario	Date Received:	8/5/2010
Matrix:	Soil	Date Extracted:	8/6/2010
Extraction Method:	3550B	Date Analyzed:	8/7/2010
Batch No.:	0807-SVOCS	Date Reported:	8/9/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		1	10*		
Lab Sample I.D.		B10H006-1	B10H006-2		
Client Sample I.D.		B-4-1	B-4-2		
Compound	RL				
Naphthalene	0.025	ND	ND		
Acenaphthylene	0.025	ND	ND		
Acenaphthene	0.025	ND	ND		
Fluorene	0.025	ND	ND		
Phenanthrene	0.025	0.034	ND		
Anthracene	0.025	ND	ND		
Fluoranthene	0.025	0.048	ND		
Pyrene	0.025	0.055	ND		
Benzo (a) anthracene	0.025	0.033	ND		
Chrysene	0.025	0.125	ND		
Benzo (b) fluoranthene	0.025	ND	ND		
Benzo (k) fluoranthene	0.025	ND	ND		
Benzo (a) pyrene	0.025	ND	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND	ND		
Dibenzo(a,h)anthracene	0.025	ND	ND		
Benzo(g,h,i)perylene	0.025	ND	ND		
Surrogate Recovery (%) QC Limit 50-150					
Nitrobenzene-d5		78	72		
2-Fluorobiphenyl		86	81		
p-Terphenyl-d14		101	69		

ND: Not Detected (Below RL x Dilution Factor).

*: High Dilution Factor Due To High Concentration of Hydrocarbons Other Than PAHs.

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H006
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/7/2010
Batch No.:	0807-SVOCS	Date Reported:	8/9/2010

MB/LCS/LCSD Report

Unit: mg/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.21	0.20	84	80	5	≤30	50-150
Acenaphthylene	ND	0.25	0.17	0.18	68	72	6	≤30	50-150
Acenaphthene	ND	0.25	0.21	0.23	84	92	9	≤30	50-150
Fluorene	ND	0.25	0.16	0.19	64	76	17	≤30	50-150
Phenanthrene	ND	0.25	0.23	0.22	92	88	4	≤30	50-150
Anthracene	ND	0.25	0.23	0.26	92	104	12	≤30	50-150
Fluoranthene	ND	0.25	0.17	0.16	68	64	6	≤30	50-150
Pyrene	ND	0.25	0.22	0.18	88	72	20	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.17	0.21	68	84	21	≤30	50-150
Chrysene	ND	0.25	0.20	0.17	80	68	16	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.17	0.19	68	76	11	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.16	0.18	64	72	12	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.21	0.17	84	68	21	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.17	0.18	68	72	6	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.19	0.15	76	60	24	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.26	0.24	104	96	8	≤30	50-150
Nitrobenzene-d5 %Rec.	81				71	68			50-150
2-Fluorobiphenyl %Rec.	85				69	72			50-150
p-Terphenyl-d14 %Rec.	78				81	79			50-150

ND: Not Detected (Below RL).



**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761
Tel: 562-413-8343
Tel/ Fax: 909-923-8628

CHAIN OF CUSTODY

Client Name		Address		Report Attention		Phone #		Sampled By		Project No./ Name		Project Site		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested	
BEC		17012 Beach Blvd. HoB. Ca				877-232-4620		Brian Bayer		SunKist Ontario				<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal		EPA8260B (VOCs & Oxygenates) EPA8260B (BTEX & Oxygenates) EPA8021B (BTEX & MTBE) EPA8015M / 8015B (Gasoline) EPA8015M / 8015B (Diesel) EPA8081A (Organochlorine Pesticides) EPA 8082 (PCBs) EPA418.1 (TRPH) EPA8015M (Carbon Chain) EPA 7000s (Metals) CAM 17 Metals 8270C SIM PNAS										<input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal	
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	8270C SIM PNAS	Remarks								
		Date	Time																								
B-4-1	B10H006-1	8/5/10	11:45am	soil			X					X	X		X		X	X									
B-42	↓ -2	8/5/10	12:20pm	soil			X					X	X		X		X	X									

Relinquished By <i>Brian Bayer</i>	Company <i>BEC</i>	Date <i>8/5/10</i>	Time <i>3:40 pm</i>	Received By <i>[Signature]</i>	Company <i>ABC</i>	Date <i>8/5/10</i>	Time <i>3:40</i>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

8/12/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 8/9/2010
Lab Job No.: B10H011

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 8/9/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0810-VOCS

Lab Job No.: B10H011
 Date Sampled: 8/9/2010
 Date Received: 8/9/2010
 Date Analyzed: 8/10/2010
 Date Reported: 8/12/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			08/10/10	08/10/10	08/10/10
Dilution Factor			1	1	1
Lab Sample I.D.			B10H011-1	B10H011-2	Method Blank
Client Sample I.D.			SP-ASP-1	SP-ASP-2	
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	ND
Chloromethane	0.0018	0.005	ND	ND	ND
Vinyl Chloride	0.0018	0.005	ND	ND	ND
Bromomethane	0.0018	0.005	ND	ND	ND
Chloroethane	0.0018	0.005	ND	ND	ND
Trichlorofluoromethane	0.0018	0.005	ND	ND	ND
1,1-Dichloroethene	0.0018	0.005	ND	ND	ND
Carbon disulfide	0.0018	0.005	ND	ND	ND
Methylene chloride	0.0018	0.005	ND	ND	ND
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	ND
1,1-Dichloroethane	0.0018	0.005	ND	ND	ND
2,2-Dichloropropane	0.0018	0.005	ND	ND	ND
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	ND
Bromochloromethane	0.0018	0.005	ND	ND	ND
Chloroform	0.0018	0.005	ND	ND	ND
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	ND
Vinyl acetate	0.0018	0.005	ND	ND	ND
Carbontetrachloride	0.0018	0.005	ND	ND	ND
1,1-Dichloropropene	0.0018	0.005	ND	ND	ND
1,2-Dichloroethane	0.0018	0.005	ND	ND	ND
Benzene	0.001	0.002	ND	ND	ND
Trichloroethene	0.0018	0.005	ND	ND	ND
1,2-Dichloropropane	0.0018	0.005	ND	ND	ND
Methyl methacrylate	0.0018	0.005	ND	ND	ND
Dibromomethane	0.0018	0.005	ND	ND	ND
Bromodichloromethane	0.0018	0.005	ND	ND	ND
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	ND
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	ND
Toluene	0.001	0.002	ND	ND	ND
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	ND
Ethylmethacrylate	0.0018	0.005	ND	ND	ND
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	ND
Dibromochloromethane	0.0018	0.005	ND	ND	ND
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	ND
Tetrachloroethene	0.0018	0.005	ND	ND	ND
1,3-Dichloropropane	0.0018	0.005	ND	ND	ND
Chlorobenzene	0.0018	0.005	ND	ND	ND

RL=Reporting Limit; ND=Not Detected (Below MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0810-VOCS

Lab Job No.: B10H011
 Date Sampled: 8/9/2010
 Date Received: 8/9/2010
 Date Analyzed: 8/10/2010
 Date Reported: 8/12/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			08/10/10	08/10/10	08/10/10	
Dilution Factor			1	1	1	
Lab Sample I.D.			B10H011-1	B10H011-2	Method Blank	
Client Sample I.D.			SP-ASP-1	SP-ASP-2		
Compound	MDL	RL				
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	ND	
Total Xylene	0.002	0.004	ND	ND	ND	
Styrene	0.0018	0.005	ND	ND	ND	
Bromoform	0.0018	0.005	ND	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	ND	
Acetone	0.025	0.050	ND	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	ND	
MTBE	0.0018	0.005	ND	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	ND	
TAME	0.0018	0.005	ND	ND	ND	
t-Butanol	0.010	0.020	ND	ND	ND	
Ethanol	0.25	0.5	ND	ND	ND	
Surrogate Recovery (%) QC Limit 70-130						
1,2-Dichloroethane-d4			81	92	81	
Toluene-d8			95	102	95	
4-Bromofluorobenzene			101	102	96	

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client: Bowyer Environmental Lab Job No.: B10H011
Project: Sunkist Lab Sample ID: LCS
Matrix: Soil Date Analyzed: 8/10/2010
Batch No.: 0810-VOCS Date Reported: 8/12/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.018	0.017	90	85	6	≤20	80-120
Benzene	ND	0.020	0.021	0.019	105	95	10	≤20	80-120
Trichloroethene	ND	0.020	0.017	0.020	85	100	16	≤20	80-120
Toluene	ND	0.020	0.019	0.018	95	90	5	≤20	80-120
Chlorobenzene	ND	0.020	0.018	0.019	90	95	5	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	101				91	89			70-130
Toluene-d8	95				95	93			70-130
4-Bromofluorobenzene	102				99	101			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H011
Project:	Sunkist	Date Sampled:	8/9/2010
Project Site:	Sunkist, Ontario	Date Received:	8/9/2010
Matrix:	Soil	Date Analyzed:	8/10/2010
Batch No.:	AH10-GS (TPH-G)	Date Analyzed:	8/10/2010
Batch No.:	BH10-DS (TPH-D)	Date Reported:	8/12/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%)	Surrogate(%)
		C4-C12	C12-C24	C24-C40	For Gasoline	For Diesel
	RL	0.1	10	50		
SP-ASP-1	B10H011-1	ND	65.9	357	92	90
SP-ASP-2	B10H011-2	ND	92.1	401	95	92

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H011
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/10/2010
Batch No.:	AH10-GS	Date Reported:	8/12/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	0.98	1.01	98	101	3	≤20	80-120
Surrogate (%)	95				93	92			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10H011

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 8/10/2010

Batch No.: BH10-DS

Date Reported: 8/12/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	501	512	100	102	2	≤20	80-120
Surrogate (%)	91				89	91			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H011
Project:	Sunkist	Date Sampled:	8/9/2010
Project Site:	Sunkist, Ontario	Date Received:	8/9/2010
Matrix:	Soil	Date Extracted:	8/10/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/10/2010
Batch No.:	0810-PES-S	Date Reported:	8/12/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1	1		
LAB SAMPLE I.D.		B10H011-1	B10H011-2	Method Blank		
CLIENT SAMPLE I.D.		SP-ASP-1	SP-ASP-2			
COMPOUND	RL					
α-BHC	5	ND	ND	ND		
γ-BHC	5	ND	ND	ND		
Heptachlor	5	ND	ND	ND		
Aldrin	5	ND	ND	ND		
β-BHC	5	ND	ND	ND		
δ-BHC	5	ND	ND	ND		
α-Chlordane	5	ND	ND	ND		
γ-Chlordane	5	ND	ND	ND		
Heptachlor Epoxide	5	ND	ND	ND		
Endosulfan I	5	ND	ND	ND		
4,4'-DDE	5	ND	ND	ND		
Dieldrin	5	ND	ND	ND		
Endrin	5	ND	ND	ND		
Endosulfan II	5	ND	ND	ND		
4,4'-DDD	5	ND	ND	ND		
4,4'-DDT	5	ND	ND	ND		
Endrin Aldehyde	5	ND	ND	ND		
Endosulfan Sulfate	5	ND	ND	ND		
Methoxychlor	20	ND	ND	ND		
Endrin Ketone	10	ND	ND	ND		
Technical Chlordane	25	ND	ND	ND		
Toxaphene	100	ND	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		71	81	78		
Decachlorobiphenyl		89	95	85		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0810-PES-S

Lab Job No.: B10H011
Lab Sample ID: LCS
Date Analyzed: 8/10/2010
Date Reported: 8/12/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	17.1	18.1	86	91	6	≤30	50-150
Heptachlor	ND	20	18.2	19.5	91	98	7	≤30	50-150
Aldrin	ND	20	20.2	21.2	101	106	5	≤30	50-140
Dieldrin	ND	40	39.5	42.5	99	106	7	≤30	70-130
Endrin	ND	40	40.1	37.5	100	94	7	≤30	70-150
4,4'-DDT	ND	40	36.5	38.2	91	96	5	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	78				85	85			65-140
DCP	85				81	83			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H011
Project:	Sunkist	Date Sampled:	8/9/2010
Project Site:	Sunkist, Ontario	Date Received:	8/9/2010
Matrix:	Soil	Date Extracted:	8/10/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/10/2010
Batch No.:	0810-PCBS	Date Reported:	8/12/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1		
LAB SAMPLE I.D.		B10H011-1	B10H011-2	Method Blank		
CLIENT SAMPLE I.D.		SP-ASP-1	SP-ASP-2			
COMPOUND	RL					
PCB-1016	25	ND	ND	ND		
PCB-1221	50	ND	ND	ND		
PCB-1232	25	ND	ND	ND		
PCB-1242	25	ND	ND	ND		
PCB-1248	25	ND	ND	ND		
PCB-1254	25	208	570	ND		
PCB-1260	25	ND	ND	ND		
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		71	81	78		
Decachlorobiphenyl		89	95	85		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0810-PCBS

Lab Job No.: B10H011
Lab Sample ID: LCS
Date Analyzed: 8/10/2010
Date Reported: 8/12/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	415	426	83	85	3	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	78				78	71			65-140
DCP	85				95	89			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H011
Project:	Sunkist	Date Sampled:	8/9/2010
Project Site:	Sunkist, Ontario	Date Received:	8/9/2010
Matrix:	Soil	Date Digested:	8/10/2010
Digestion Method:	3050B	Date Analyzed:	8/11/2010
Batch No.:	0811-MTS	Date Reported:	8/12/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10H011-1	B10H011-2			Report Limit
		SP-ASP-1	SP-ASP-2			
Antimony (Sb)	6010B	ND	ND			10
Arsenic (As)	6010B	2.88	3.32			0.5
Barium (Ba)	6010B	56.7	54.1			5.0
Beryllium (Be)	6010B	ND	ND			2.5
Cadmium (Cd)	6010B	ND	ND			2.5
Chromium (Cr)	6010B	6.0	7.6			2.5
Cobalt (Co)	6010B	3.56	4.46			2.5
Copper (Cu)	6010B	136	18.4			2.5
Lead (Pb)	6010B	57.3	107			2.5
Mercury (Hg)	7471A	ND	ND			0.1
Molybdenum (Mo)	6010B	ND	ND			5.0
Nickel (Ni)	6010B	35.8	30.4			2.5
Selenium (Se)	6010B	ND	ND			0.5
Silver (Ag)	6010B	ND	ND			2.5
Thallium (Tl)	6010B	ND	ND			2.5
Vanadium (V)	6010B	13.4	17.6			5.0
Zinc (Zn)	6010B	46.1	89.9			2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H011
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/11/2010
Batch No.:	0811-MTS	Date Reported:	8/12/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	125	105	116	84	93	10	≤20	80-120
Arsenic (As)	6010B	ND	25	21.5	22.6	86	90	5	≤20	80-120
Barium (Ba)	6010B	ND	25	20.5	21.6	82	86	5	≤20	80-120
Beryllium (Be)	6010B	ND	25	23.2	20.5	93	82	12	≤20	80-120
Cadmium (Cd)	6010B	ND	25	23.4	22.1	94	88	6	≤20	80-120
Chromium (Cr)	6010B	ND	25	21.5	22.3	86	89	4	≤20	80-120
Cobalt (Co)	6010B	ND	25	23.5	21.2	94	85	10	≤20	80-120
Copper (Cu)	6010B	ND	50	45.2	41.2	90	82	9	≤20	80-120
Lead (Pb)	6010B	ND	50	41.5	40.6	83	81	2	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.78	1.81	89	91	2	≤20	80-120
Molybdenum (Mo)	6010B	ND	25	21.6	22.3	86	89	3	≤20	80-120
Nickel (Ni)	6010B	ND	25	22.5	21.5	90	86	5	≤20	80-120
Selenium (Se)	6010B	ND	25	23.4	22.6	94	90	3	≤20	80-120
Silver (Ag)	6010B	ND	25	21.5	23.6	86	94	9	≤20	80-120
Thallium (Tl)	6010B	ND	25	22.3	23.2	89	93	4	≤20	80-120
Vanadium (V)	6010B	ND	125	112	103	90	82	8	≤20	80-120
Zinc (Zn)	6010B	ND	25	20.0	21.5	80	86	7	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H011
Project :	Sunkist	Date Sampled:	8/9/2010
Project Site:	Sunkist, Ontario	Date Received:	8/9/2010
Matrix:	Soil	Date Extracted:	8/10/2010
Extraction Method:	3550B	Date Analyzed:	8/11/2010
Batch No.:	0811-SVOCS	Date Reported:	8/12/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor	1	1		
Lab Sample I.D.	B10H011-1	B10H011-2		
Client Sample I.D.	SP-ASP-1	SP-ASP-2		
Compound	RL			
Naphthalene	0.025	ND	ND	
Acenaphthylene	0.025	ND	ND	
Acenaphthene	0.025	ND	ND	
Fluorene	0.025	ND	ND	
Phenanthrene	0.025	0.03	0.07	
Anthracene	0.025	ND	ND	
Fluoranthene	0.025	0.025	0.026	
Pyrene	0.025	ND	ND	
Benzo (a) anthracene	0.025	ND	ND	
Chrysene	0.025	0.025	0.031	
Benzo (b) fluoranthene	0.025	ND	ND	
Benzo (k) fluoranthene	0.025	ND	ND	
Benzo (a) pyrene	0.025	ND	ND	
Indeno(1,2,3-cd)pyrene	0.025	ND	ND	
Dibenzo(a,h)anthracene	0.025	ND	ND	
Benzo(g,h,i)perylene	0.025	ND	ND	
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		68	72	
2-Fluorobiphenyl		71	75	
p-Terphenyl-d14		78	81	

ND: Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H011
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/11/2010
Batch No.:	0811-SVOCS	Date Reported:	8/12/2010

MB/LCS/LCSD Report

Unit: mg/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.19	0.21	76	84	10	≤30	50-150
Acenaphthylene	ND	0.25	0.16	0.19	64	76	17	≤30	50-150
Acenaphthene	ND	0.25	0.18	0.20	72	80	11	≤30	50-150
Fluorene	ND	0.25	0.21	0.18	84	72	15	≤30	50-150
Phenanthrene	ND	0.25	0.22	0.18	88	72	20	≤30	50-150
Anthracene	ND	0.25	0.21	0.19	84	76	10	≤30	50-150
Fluoranthene	ND	0.25	0.22	0.21	88	84	5	≤30	50-150
Pyrene	ND	0.25	0.20	0.19	80	76	5	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.18	0.22	72	88	20	≤30	50-150
Chrysene	ND	0.25	0.16	0.18	64	72	12	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.19	0.17	76	68	11	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.16	0.20	64	80	22	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.21	0.23	84	92	9	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.15	0.19	60	76	24	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.19	0.17	76	68	11	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.23	0.21	92	84	9	≤30	50-150
Nitrobenzene-d5 %Rec.	71				67	76			50-150
2-Fluorobiphenyl %Rec.	69				75	78			50-150
p-Terphenyl-d14 %Rec.	81				82	86			50-150

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested															
Address <u>17011 Beach Blvd. H.B. Ca</u>		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal		<table border="1"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B (BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td><u>8270C SIM PNA</u></td> <td></td> <td></td> <td></td> </tr> </table>										EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<u>8270C SIM PNA</u>				<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal
EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)											EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<u>8270C SIM PNA</u>								
Report Attention	Phone # Fax: # <u>877-232-4620</u>	Sampled By <u>Brian Bauer</u>																											
Project No./ Name	Project Site <u>Sunkist Ontario</u>																												
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container																				Remarks			
<u>SP-ASP-1</u>	<u>B10H011-1</u>	<u>8/9/10</u>	<u>8:30am</u>	<u>Solid</u>			X					X	X		X			X											
<u>SP-ASP-2</u>	<u>↓ -2</u>	<u>8/9/10</u>	<u>8:45am</u>	<u>↓</u>			X					X	X		X			X											

Relinquished By <u>Brian Bauer</u>	Company <u>BEC</u>	Date <u>8/9/10</u>	Time <u>10:00am</u>	Received By <u>[Signature]</u>	Company <u>ABC</u>	Date <u>8/9/10</u>	Time <u>10:00pm</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product, Preservative Code: IC=Ice, HC=HCl, HN=HNO3, SH=NaOH, ST=Na2S2O3, HS=H2SO4, * Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST= Steel Tube, B= Brass Tube, P=Plastic Bottle, V=VOA Vial, E= EnCore

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

8/17/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 8/9/2010
Lab Job No.: B10H011A

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 8/9/10 and analyzed by the following EPA methods:

WET Test (STLC Lead)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H011A
Project:	Sunkist	Date Sampled:	8/9/2010
Project Site:	Sunkist, Ontario	Date Received:	8/9/2010
Matrix:	Water	Date Digested:	8/16/2010
Digestion Method:	3010C	Date Analyzed:	8/16/2010
Batch No.:	0816-MTW	Date Reported:	8/17/2010

WET Test (STLC)

Report Unit: mg/L (PPM)

Element	Method	B10H011-1	B10H011-2	Reporting Limit
		SP-ASP-1	SP-ASP-2	
STLC Lead	EPA 6010B	0.52	1.26	0.1

Extraction Method: Waste Extraction Test (WET) Procedures, Title 22, Cal Wet 66700.

Date Extracted: 8/13/2010 6:30PM to 8/15/2010 6:30PM.

ABC Environmental Laboratories

Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Water
Batch No.: 0816-MTW

Lab Job No.: B10H011A
Lab Sample ID: LCS
Date Analyzed: 8/16/2010
Date Reported: 8/17/2010

MB/LCS/LCSD Report

Unit: mg/L

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Lead (Pb)	6010B	ND	25.0	22.1	23.6	88	94	7	≤20	80-120

ND: Not Detected (at the specified limit).



CHAIN OF CUSTODY

Client Name <u>BEC</u>				Sample Receipt Conditions		Analyses Requested												Turn Around Time Requested												
Address <u>17011 Beach Blvd. H.B. Ca</u>				<input checked="" type="checkbox"/> Chilled		EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<u>8270C SIM PNAs</u>	<u>STLC Lead</u>	<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal											
Report Attention		Phone # Fax: # <u>877-232-4620</u>		Sampled By <u>Brian Bauer</u>															<input type="checkbox"/> Intact		<input type="checkbox"/> Sample Seal									
Project No./ Name		Project Site <u>Sunkist Ontario</u>																												
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container													Remarks											
		Date	Time																											
<u>SP-ASP-1</u>	<u>B10H011-1</u>	<u>8/9/10</u>	<u>8:30am</u>	<u>solid</u>																	<u>0: Requested on 8/13/2010 by e-mail</u>									
<u>SP-ASP-2</u>	<u>↓ -2</u>	<u>8/9/10</u>	<u>8:45am</u>	<u>↓</u>																										

Relinquished By <u>Brian Bauer</u>	Company <u>BEC</u>	Date <u>8/9/10</u>	Time <u>10:00am</u>	Received By <u>[Signature]</u>	Company <u>ABC</u>	Date <u>8/9/10</u>	Time <u>10:00am</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code: DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T= Tedlar Air Bag G= Glass Container ST= Steel Tube	B= Brass Tube P= Plastic Bottle V= VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

8/17/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 8/13/2010
Lab Job No.: B10H021

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 8/13/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0813-VOCS

Lab Job No.: B10H021
 Date Sampled: 8/13/2010
 Date Received: 8/13/2010
 Date Analyzed: 8/13/2010
 Date Reported: 8/17/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			08/13/10	08/13/10	
Dilution Factor			1	1	
Lab Sample I.D.			B10H021-1	Method Blank	
Client Sample I.D.			E-4-1		
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	
Chloromethane	0.0018	0.005	ND	ND	
Vinyl Chloride	0.0018	0.005	ND	ND	
Bromomethane	0.0018	0.005	ND	ND	
Chloroethane	0.0018	0.005	ND	ND	
Trichlorofluoromethane	0.0018	0.005	ND	ND	
1,1-Dichloroethene	0.0018	0.005	ND	ND	
Carbon disulfide	0.0018	0.005	ND	ND	
Methylene chloride	0.0018	0.005	ND	ND	
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	
1,1-Dichloroethane	0.0018	0.005	ND	ND	
2,2-Dichloropropane	0.0018	0.005	ND	ND	
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	
Bromochloromethane	0.0018	0.005	ND	ND	
Chloroform	0.0018	0.005	ND	ND	
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	
Vinyl acetate	0.0018	0.005	ND	ND	
Carbontetrachloride	0.0018	0.005	ND	ND	
1,1-Dichloropropene	0.0018	0.005	ND	ND	
1,2-Dichloroethane	0.0018	0.005	ND	ND	
Benzene	0.001	0.002	ND	ND	
Trichloroethene	0.0018	0.005	ND	ND	
1,2-Dichloropropane	0.0018	0.005	ND	ND	
Methyl methacrylate	0.0018	0.005	ND	ND	
Dibromomethane	0.0018	0.005	ND	ND	
Bromodichloromethane	0.0018	0.005	ND	ND	
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Toluene	0.001	0.002	ND	ND	
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Ethylmethacrylate	0.0018	0.005	ND	ND	
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	
Dibromochloromethane	0.0018	0.005	ND	ND	
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	
Tetrachloroethene	0.0018	0.005	ND	ND	
1,3-Dichloropropane	0.0018	0.005	ND	ND	
Chlorobenzene	0.0018	0.005	ND	ND	

RL=Reporting Limit; ND=Not Detected (Below MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0813-VOCS

Lab Job No.: B10H021
 Date Sampled: 8/13/2010
 Date Received: 8/13/2010
 Date Analyzed: 8/13/2010
 Date Reported: 8/17/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		08/13/10	08/13/10		
Dilution Factor		1	1		
Lab Sample I.D.		B10H021-1	Method Blank		
Client Sample I.D.		E-4-1			
Compound	MDL	RL			
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	
Total Xylene	0.002	0.004	ND	ND	
Styrene	0.0018	0.005	ND	ND	
Bromoform	0.0018	0.005	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	
Acetone	0.025	0.050	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	
MTBE	0.0018	0.005	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	
TAME	0.0018	0.005	ND	ND	
t-Butanol	0.010	0.020	ND	ND	
Ethanol	0.25	0.5	ND	ND	
Surrogate Recovery (%) QC Limit 70-130					
1,2-Dichloroethane-d4			89	95	
Toluene-d8			92	101	
4-Bromofluorobenzene			101	98	

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H021
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/13/2010
Batch No.:	0813-VOCS	Date Reported:	8/17/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.018	0.017	90	85	6	≤20	80-120
Benzene	ND	0.020	0.017	0.017	85	85	0	≤20	80-120
Trichloroethene	ND	0.020	0.017	0.016	85	80	6	≤20	80-120
Toluene	ND	0.020	0.017	0.020	85	100	16	≤20	80-120
Chlorobenzene	ND	0.020	0.018	0.019	90	95	5	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	95				85	86			70-130
Toluene-d8	101				89	92			70-130
4-Bromofluorobenzene	98				96	95			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H021
Project:	Sunkist	Date Sampled:	8/13/2010
Project Site:	Sunkist, Ontario	Date Received:	8/13/2010
Matrix:	Soil	Date Analyzed:	8/13/2010
Batch No.:	AH13-GS (TPH-G)	Date Analyzed:	8/14/2010
Batch No.:	BH14-DS (TPH-D)	Date Reported:	8/17/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%) For Gasoline	Surrogate(%) For Diesel
		C4-C12	C12-C24	C24-C40		
	RL	0.1	10	50		
E-4-1	B10H021-1	ND	ND	ND	82	89

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: AH13-GS

Lab Job No.: B10H021
Lab Sample ID: LCS
Date Analyzed: 8/13/2010
Date Reported: 8/17/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	0.98	1.01	98	101	3	≤20	80-120
Surrogate (%)	95				89	93			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10H021

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 8/14/2010

Batch No.: BH14-DS

Date Reported: 8/17/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	425	478	85	96	12	≤20	80-120
Surrogate (%)	89				91	85			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project: Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: 0814-PES-S

Lab Job No.: B10H021
 Date Sampled: 8/13/2010
 Date Received: 8/13/2010
 Date Extracted: 8/13/2010
 Date Analyzed: 8/14/2010
 Date Reported: 8/17/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1			
LAB SAMPLE I.D.		B10H021-1	Method Blank			
CLIENT SAMPLE I.D.		E-4-1				
COMPOUND	RL					
α-BHC	5	ND	ND			
γ-BHC	5	ND	ND			
Heptachlor	5	ND	ND			
Aldrin	5	ND	ND			
β-BHC	5	ND	ND			
δ-BHC	5	ND	ND			
α-Chlordane	5	13.6	ND			
γ-Chlordane	5	31.6	ND			
Heptachlor Epoxide	5	ND	ND			
Endosulfan I	5	ND	ND			
4,4'-DDE	5	ND	ND			
Dieldrin	5	ND	ND			
Endrin	5	ND	ND			
Endosulfan II	5	ND	ND			
4,4'-DDD	5	ND	ND			
4,4'-DDT	5	ND	ND			
Endrin Aldehyde	5	ND	ND			
Endosulfan Sulfate	5	ND	ND			
Methoxychlor	20	ND	ND			
Endrin Ketone	10	ND	ND			
Technical Chlordane	25	ND	ND			
Toxaphene	100	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		85	70			
Decachlorobiphenyl		91	89			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H021
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/14/2010
Batch No.:	0814-PES-S	Date Reported	8/17/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ-BHC	ND	20	16.2	17.1	81	86	5	≤30	50-150
Heptachlor	ND	20	19.5	16.4	98	82	17	≤30	50-150
Aldrin	ND	20	17.8	16.1	89	81	10	≤30	50-140
Dieldrin	ND	40	33.5	32.1	84	80	4	≤30	70-130
Endrin	ND	40	35.6	33.5	89	84	6	≤30	70-150
4,4'-DDT	ND	40	32.1	34.6	80	87	7	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	70				81	78			65-140
DCP	89				102	91			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H021
Project:	Sunkist	Date Sampled:	8/13/2010
Project Site:	Sunkist, Ontario	Date Received:	8/13/2010
Matrix:	Soil	Date Extracted:	8/13/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/14/2010
Batch No.:	0814-PCBS	Date Reported:	8/17/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1			
LAB SAMPLE I.D.		B10H021-1	Method Blank			
CLIENT SAMPLE I.D.		E-4-1				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	529	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		85	70			
Decachlorobiphenyl		91	89			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0814-PCBS

Lab Job No.: B10H021
Lab Sample ID: LCS
Date Analyzed: 8/14/2010
Date Reported: 8/17/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	405	418	81	84	3	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	70				72	81			65-140
DCP	89				89	92			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H021
Project:	Sunkist	Date Sampled:	8/13/2010
Project Site:	Sunkist, Ontario	Date Received:	8/13/2010
Matrix:	Soil	Date Digested:	8/13/2010
Digestion Method:	3050B	Date Analyzed:	8/14/2010
Batch No.:	0814-MTS	Date Reported:	8/17/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10H021-1				Report Limit
		E-4-1				
Antimony (Sb)	6010B	ND				10
Arsenic (As)	6010B	6.79				0.5
Barium (Ba)	6010B	81.7				5.0
Beryllium (Be)	6010B	ND				2.5
Cadmium (Cd)	6010B	ND				2.5
Chromium (Cr)	6010B	575				2.5
Cobalt (Co)	6010B	5.95				2.5
Copper (Cu)	6010B	21.7				2.5
Lead (Pb)	6010B	7.33				2.5
Mercury (Hg)	7471A	ND				0.1
Molybdenum (Mo)	6010B	ND				5.0
Nickel (Ni)	6010B	8.11				2.5
Selenium (Se)	6010B	ND				0.5
Silver (Ag)	6010B	ND				2.5
Thallium (Tl)	6010B	ND				2.5
Vanadium (V)	6010B	41				5.0
Zinc (Zn)	6010B	204				2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0814-MTS

Lab Job No.: B10H021
Lab Sample ID: LCS
Date Analyzed: 8/14/2010
Date Reported: 8/17/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	25	21.2	24.6	85	98	15	≤20	80-120
Arsenic (As)	6010B	ND	25	21.2	21.6	85	86	2	≤20	80-120
Barium (Ba)	6010B	ND	25	22.1	22.3	88	89	1	≤20	80-120
Beryllium (Be)	6010B	ND	25	22.2	21.5	89	86	3	≤20	80-120
Cadmium (Cd)	6010B	ND	25	20.3	21.1	81	84	4	≤20	80-120
Chromium (Cr)	6010B	ND	25	23.4	24.1	94	96	3	≤20	80-120
Cobalt (Co)	6010B	ND	25	24.2	25.6	97	102	6	≤20	80-120
Copper (Cu)	6010B	ND	25	22.3	21.2	89	85	5	≤20	80-120
Lead (Pb)	6010B	ND	25	22.1	23.5	88	94	6	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.65	1.70	83	85	3	≤20	80-120
Molybdenum (Mo)	6010B	ND	25	23.5	25.1	94	100	7	≤20	80-120
Nickel (Ni)	6010B	ND	25	21.3	22.5	85	90	5	≤20	80-120
Selenium (Se)	6010B	ND	25	25.1	26.2	100	105	4	≤20	80-120
Silver (Ag)	6010B	ND	25	21.5	22.4	86	90	4	≤20	80-120
Thallium (Tl)	6010B	ND	25	21.1	23.4	84	94	10	≤20	80-120
Vanadium (V)	6010B	ND	25	20.5	24.5	82	98	18	≤20	80-120
Zinc (Zn)	6010B	ND	25	22.3	25.6	89	102	14	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H021
Project :	Sunkist	Date Sampled:	8/13/2010
Project Site:	Sunkist, Ontario	Date Received:	8/13/2010
Matrix:	Soil	Date Extracted:	8/14/2010
Extraction Method:	3550B	Date Analyzed:	8/16/2010
Batch No.:	0816-SVOCS	Date Reported:	8/17/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		1		
Lab Sample I.D.		B10H021-1		
Client Sample I.D.		E-4-1		
Compound	RL			
Naphthalene	0.025	ND		
Acenaphthylene	0.025	ND		
Acenaphthene	0.025	ND		
Fluorene	0.025	ND		
Phenanthrene	0.025	ND		
Anthracene	0.025	ND		
Fluoranthene	0.025	ND		
Pyrene	0.025	ND		
Benzo (a) anthracene	0.025	ND		
Chrysene	0.025	ND		
Benzo (b) fluoranthene	0.025	ND		
Benzo (k) fluoranthene	0.025	ND		
Benzo (a) pyrene	0.025	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND		
Dibenzo(a,h)anthracene	0.025	ND		
Benzo(g,h,i)perylene	0.025	ND		
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		81		
2-Fluorobiphenyl		83		
p-Terphenyl-d14		82		

ND: Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H021
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/16/2010
Batch No.:	0816-SVOCS	Date Reported:	8/17/2010

MB/LCS/LCSD Report

Unit: mg/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.17	0.19	68	76	11	≤30	50-150
Acenaphthylene	ND	0.25	0.20	0.21	80	84	5	≤30	50-150
Acenaphthene	ND	0.25	0.22	0.23	88	92	4	≤30	50-150
Fluorene	ND	0.25	0.25	0.24	100	96	4	≤30	50-150
Phenanthrene	ND	0.25	0.19	0.17	76	68	11	≤30	50-150
Anthracene	ND	0.25	0.22	0.23	88	92	4	≤30	50-150
Fluoranthene	ND	0.25	0.19	0.17	76	68	11	≤30	50-150
Pyrene	ND	0.25	0.18	0.21	72	84	15	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.22	0.23	88	92	4	≤30	50-150
Chrysene	ND	0.25	0.17	0.19	68	76	11	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.22	0.25	88	100	13	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.18	0.17	72	68	6	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.23	0.19	92	76	19	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.19	0.22	76	88	15	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.21	0.23	84	92	9	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.25	0.26	100	104	4	≤30	50-150
Nitrobenzene-d5 %Rec.	78				75	77			50-150
2-Fluorobiphenyl %Rec.	82				76	81			50-150
p-Terphenyl-d14 %Rec.	93				86	89			50-150

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested																								
Address 17022 Beach Blvd, H.B., Ca.		<input checked="" type="checkbox"/> Chilled		<table border="1"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B(BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td>8270C sim (NAT)</td> </tr> <tr> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td>X</td> <td></td> <td>X</td> <td>X</td> </tr> </table>										EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	8270C sim (NAT)	X					X	X		X		X	X	<input type="checkbox"/> Rush 8 12 24 48 Hours
EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)											EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	8270C sim (NAT)																	
X					X	X		X		X	X																											
Report Attention	Phone # Fax: # 877-232-4620	<input checked="" type="checkbox"/> Intact												<input checked="" type="checkbox"/> Normal																								
Project No./ Name	Project Site Sunkist		<input type="checkbox"/> Sample Seal																																			
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container											Remarks																					
		Date	Time																																			
E-4-1	B10H021-1	8/13/10	2:45pm	Soil																																		

Relinquished By Brian Bauer	Company BEC	Date 8/13/10	Time 3:21 pm	Received By <i>[Signature]</i>	Company ABC Labs	Date 8/13/10	Time 3:21 PM	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

8/23/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 8/13/2010
Lab Job No.: B10H021

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 8/13/10 and analyzed by the following EPA methods:

EPA 7196A(Chromium VI)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H021A
Project:	Sunkist	Date Sampled:	8/13/2010
Project Site:	Sunkist, Ontario	Date Received:	8/13/2010
Matrix:	Soil	Date Analyzed:	8/20/2010
Batch No.:	DH20-CrVI	Date Reported:	8/23/2010

EPA 7196A(Chromium VI)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Chromium VI		
	Reporting Limit	0.1		
E-4-1	B10H021-1	ND		

ND=Not Detected (Below RL).

ABC Environmental Laboratories

EPA 7196A (Chromium VI)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10H021

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 8/20/2010

Batch No.: DH20-CrVI

Date Reported: 8/23/2010

MB/LCS/LCSD Report

Unit: mg/kg

Analyte	Method	Spike	LCS	LCSD	LCS	LCSD	%RPD	%RPD	%Rec
	Blank	Conc.			%Rec.	%rec.		Accept	Accept
								Limit	Limit
Cr(VI)	ND	5.0	4.55	4.21	91	84	8	≤20	80-120

ND: Not Detected (Below RL).



**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761
Tel: 562-413-8343
Tel/ Fax: 909-923-8628

Page 1 of 1
Lab Job Number B10H021A

CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested														
Address <u>7011 Beach Blvd. H.B. Ca.</u>		<input checked="" type="checkbox"/> Chilled		<table border="1"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B(BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td><u>8270C sim PNAJ</u></td> <td><u>0 Cr6+</u></td> <td></td> </tr> </table>										EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<u>8270C sim PNAJ</u>	<u>0 Cr6+</u>		<input type="checkbox"/> Rush 8 12 24 48 Hours
EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)											EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<u>8270C sim PNAJ</u>	<u>0 Cr6+</u>						
Report Attention	Phone # Fax: # <u>877-232-4620</u>	<input checked="" type="checkbox"/> Intact		<input type="checkbox"/> Sample Seal		<input checked="" type="checkbox"/> Normal																						
Project No./ Name	Project Site <u>Sunkist</u>		Client Sample ID	Lab Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	Remarks																		
			<u>E-4-1</u>	<u>B10H021A</u>	<u>8/13/10</u>	<u>2:45pm</u>	<u>soil</u>			<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>0: Requested on 8/19/2010 via E-mail</u>														

Relinquished By <u>Brian Bauer</u>	Company <u>BEC</u>	Date <u>8/13/10</u>	Time <u>3:21 pm</u>	Received By <u>[Signature]</u>	Company <u>ABC Labs</u>	Date <u>8/13/10</u>	Time <u>3:21 PM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

8/20/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 8/16/2010
Lab Job No.: B10H023

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 8/16/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0818-VOCS

Lab Job No.: B10H023
 Date Sampled: 8/16/2010
 Date Received: 8/16/2010
 Date Analyzed: 8/18/2010
 Date Reported: 8/20/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			08/18/10	08/18/10	
Dilution Factor			1	1	
Lab Sample I.D.			B10H023-1	Method Blank	
Client Sample I.D.			E-4-2		
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	
Chloromethane	0.0018	0.005	ND	ND	
Vinyl Chloride	0.0018	0.005	ND	ND	
Bromomethane	0.0018	0.005	ND	ND	
Chloroethane	0.0018	0.005	ND	ND	
Trichlorofluoromethane	0.0018	0.005	ND	ND	
1,1-Dichloroethene	0.0018	0.005	ND	ND	
Carbon disulfide	0.0018	0.005	ND	ND	
Methylene chloride	0.0018	0.005	ND	ND	
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	
1,1-Dichloroethane	0.0018	0.005	ND	ND	
2,2-Dichloropropane	0.0018	0.005	ND	ND	
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	
Bromochloromethane	0.0018	0.005	ND	ND	
Chloroform	0.0018	0.005	ND	ND	
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	
Vinyl acetate	0.0018	0.005	ND	ND	
Carbontetrachloride	0.0018	0.005	ND	ND	
1,1-Dichloropropene	0.0018	0.005	ND	ND	
1,2-Dichloroethane	0.0018	0.005	ND	ND	
Benzene	0.001	0.002	ND	ND	
Trichloroethene	0.0018	0.005	ND	ND	
1,2-Dichloropropane	0.0018	0.005	ND	ND	
Methyl methacrylate	0.0018	0.005	ND	ND	
Dibromomethane	0.0018	0.005	ND	ND	
Bromodichloromethane	0.0018	0.005	ND	ND	
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Toluene	0.001	0.002	ND	ND	
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Ethylmethacrylate	0.0018	0.005	ND	ND	
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	
Dibromochloromethane	0.0018	0.005	ND	ND	
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	
Tetrachloroethene	0.0018	0.005	ND	ND	
1,3-Dichloropropane	0.0018	0.005	ND	ND	
Chlorobenzene	0.0018	0.005	ND	ND	

RL=Reporting Limit; ND=Not Detected (Below MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0818-VOCS

Lab Job No.: B10H023
 Date Sampled: 8/16/2010
 Date Received: 8/16/2010
 Date Analyzed: 8/18/2010
 Date Reported: 8/20/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		08/18/10	08/18/10		
Dilution Factor		1	1		
Lab Sample I.D.		B10H023-1	Method Blank		
Client Sample I.D.		E-4-2			
Compound	MDL	RL			
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	
Total Xylene	0.002	0.004	ND	ND	
Styrene	0.0018	0.005	ND	ND	
Bromoform	0.0018	0.005	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	
Acetone	0.025	0.050	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	
MTBE	0.0018	0.005	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	
TAME	0.0018	0.005	ND	ND	
t-Butanol	0.010	0.020	ND	ND	
Ethanol	0.25	0.5	ND	ND	
Surrogate Recovery (%) QC Limit 70-130					
1,2-Dichloroethane-d4			92	92	
Toluene-d8			101	91	
4-Bromofluorobenzene			103	101	

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H023
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/18/2010
Batch No.:	0818-VOCS	Date Reported:	8/20/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.017	0.016	85	80	6	≤20	80-120
Benzene	ND	0.020	0.016	0.018	80	90	12	≤20	80-120
Trichloroethene	ND	0.020	0.018	0.020	90	100	11	≤20	80-120
Toluene	ND	0.020	0.018	0.021	90	105	15	≤20	80-120
Chlorobenzene	ND	0.020	0.018	0.020	90	100	11	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	92				89	92			70-130
Toluene-d8	91				92	96			70-130
4-Bromofluorobenzene	101				95	99			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H023
Project:	Sunkist	Date Sampled:	8/16/2010
Project Site:	Sunkist, Ontario	Date Received:	8/16/2010
Matrix:	Soil	Date Analyzed:	8/18/2010
Batch No.:	AH18-GS (TPH-G)	Date Analyzed:	8/18/2010
Batch No.:	BH18-DS (TPH-D)	Date Reported:	8/20/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%) For Gasoline	Surrogate(%) For Diesel
		C4-C12	C12-C24	C24-C40		
	RL	0.1	10	50		
E-4-2	B10H023-1	7.92	ND	ND	98	95

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: AH18-GS

Lab Job No.: B10H023
Lab Sample ID: LCS
Date Analyzed: 8/18/2010
Date Reported: 8/20/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	1.02	1.05	102	105	3	≤20	80-120
Surrogate (%)	91				95	98			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10H023

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 8/18/2010

Batch No.: BH18-DS

Date Reported: 8/20/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	421	456	84	91	8	≤20	80-120
Surrogate (%)	91				85	89			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H023
Project:	Sunkist	Date Sampled:	8/16/2010
Project Site:	Sunkist, Ontario	Date Received:	8/16/2010
Matrix:	Soil	Date Extracted:	8/18/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/19/2010
Batch No.:	0819-PES-S	Date Reported:	8/20/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1			
LAB SAMPLE I.D.		B10H023-1	Method Blank			
CLIENT SAMPLE I.D.		E-4-2				
COMPOUND	RL					
α-BHC	5	ND	ND			
γ-BHC	5	ND	ND			
Heptachlor	5	ND	ND			
Aldrin	5	ND	ND			
β-BHC	5	ND	ND			
δ-BHC	5	ND	ND			
α-Chlordane	5	ND	ND			
γ-Chlordane	5	15.8	ND			
Heptachlor Epoxide	5	ND	ND			
Endosulfan I	5	ND	ND			
4,4'-DDE	5	ND	ND			
Dieldrin	5	ND	ND			
Endrin	5	ND	ND			
Endosulfan II	5	ND	ND			
4,4'-DDD	5	ND	ND			
4,4'-DDT	5	ND	ND			
Endrin Aldehyde	5	ND	ND			
Endosulfan Sulfate	5	ND	ND			
Methoxychlor	20	ND	ND			
Endrin Ketone	10	ND	ND			
Technical Chlordane	25	ND	ND			
Toxaphene	100	ND	ND			
Surrogate Recovery (%)		QC Limit: 65-140				
2,4,5,6-Tetrachloro-m-xylene		85	95			
Decachlorobiphenyl		95	102			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0819-PES-S

Lab Job No.: B10H023
Lab Sample ID: LCS
Date Analyzed: 8/19/2010
Date Reported: 8/20/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	17.1	18.2	86	91	6	≤ 30	50-150
Heptachlor	ND	20	18.2	17.1	91	86	6	≤ 30	50-150
Aldrin	ND	20	17.5	17.2	88	86	2	≤ 30	50-140
Dieldrin	ND	40	31.2	33.1	78	83	6	≤ 30	70-130
Endrin	ND	40	38.1	35.5	95	89	7	≤ 30	70-150
4,4'-DDT	ND	40	33.5	36.1	84	90	7	≤ 30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	95				91	95			65-140
DCP	102				88	89			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H023
Project:	Sunkist	Date Sampled:	8/16/2010
Project Site:	Sunkist, Ontario	Date Received:	8/16/2010
Matrix:	Soil	Date Extracted:	8/18/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/19/2010
Batch No.:	0819-PCBS	Date Reported:	8/20/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1			
LAB SAMPLE I.D.		B10H023-1	Method Blank			
CLIENT SAMPLE I.D.		E-4-2				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	326	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		85	95			
Decachlorobiphenyl		95	102			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0819-PCBS

Lab Job No.: B10H023
Lab Sample ID: LCS
Date Analyzed: 8/19/2010
Date Reported: 8/20/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	415	421	83	84	1	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	95				80	89			65-140
DCP	102				92	101			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H023
Project:	Sunkist	Date Sampled:	8/16/2010
Project Site:	Sunkist, Ontario	Date Received:	8/16/2010
Matrix:	Soil	Date Digested:	8/18/2010
Digestion Method:	3050B	Date Analyzed:	8/18/2010
Batch No.:	0818-MTS	Date Reported:	8/20/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10H023-1			Report Limit
		E-4-2			
Antimony (Sb)	6010B	ND			10
Arsenic (As)	6010B	6.47			0.5
Barium (Ba)	6010B	59.6			5.0
Beryllium (Be)	6010B	ND			2.5
Cadmium (Cd)	6010B	ND			2.5
Chromium (Cr)	6010B	37.5			2.5
Cobalt (Co)	6010B	6.61			2.5
Copper (Cu)	6010B	19.8			2.5
Lead (Pb)	6010B	7.53			2.5
Mercury (Hg)	7471A	ND			0.1
Molybdenum (Mo)	6010B	ND			5.0
Nickel (Ni)	6010B	9.17			2.5
Selenium (Se)	6010B	ND			0.5
Silver (Ag)	6010B	ND			2.5
Thallium (Tl)	6010B	ND			2.5
Vanadium (V)	6010B	40.5			5.0
Zinc (Zn)	6010B	54.4			2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H023
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/18/2010
Batch No.:	0818-MTS	Date Reported:	8/20/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	25	25.0	24.8	100	99	1	≤20	80-120
Arsenic (As)	6010B	ND	25	25.8	27.9	103	112	8	≤20	80-120
Barium (Ba)	6010B	ND	25	24.2	24.2	97	97	0	≤20	80-120
Beryllium (Be)	6010B	ND	25	24.7	25.7	99	103	4	≤20	80-120
Cadmium (Cd)	6010B	ND	25	25.3	26.1	101	104	3	≤20	80-120
Chromium (Cr)	6010B	ND	25	24.3	24.2	97	97	0	≤20	80-120
Cobalt (Co)	6010B	ND	25	25.6	27.1	102	108	6	≤20	80-120
Copper (Cu)	6010B	ND	25	25.2	26.1	101	104	4	≤20	80-120
Lead (Pb)	6010B	ND	25	25.1	25.7	100	103	2	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.75	1.82	88	91	4	≤20	80-120
Molybdenum (Mo)	6010B	ND	25	24.6	23.5	98	94	5	≤20	80-120
Nickel (Ni)	6010B	ND	25	24.9	25.1	100	100	1	≤20	80-120
Selenium (Se)	6010B	ND	25	25.1	26.1	100	104	4	≤20	80-120
Silver (Ag)	6010B	ND	25	24.6	24.9	98	100	1	≤20	80-120
Thallium (Tl)	6010B	ND	25	24.9	25.1	100	100	1	≤20	80-120
Vanadium (V)	6010B	ND	25	25.5	26.8	102	107	5	≤20	80-120
Zinc (Zn)	6010B	ND	25	24.9	25.3	100	101	2	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H023
Project :	Sunkist	Date Sampled:	8/16/2010
Project Site:	Sunkist, Ontario	Date Received:	8/16/2010
Matrix:	Soil	Date Extracted:	8/18/2010
Extraction Method:	3550B	Date Analyzed:	8/18/2010
Batch No.:	0818-SVOCS	Date Reported:	8/20/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		1		
Lab Sample I.D.		B10H023-1		
Client Sample I.D.		E-4-2		
Compound	RL			
Naphthalene	0.025	ND		
Acenaphthylene	0.025	ND		
Acenaphthene	0.025	ND		
Fluorene	0.025	ND		
Phenanthrene	0.025	ND		
Anthracene	0.025	ND		
Fluoranthene	0.025	ND		
Pyrene	0.025	ND		
Benzo (a) anthracene	0.025	ND		
Chrysene	0.025	ND		
Benzo (b) fluoranthene	0.025	ND		
Benzo (k) fluoranthene	0.025	ND		
Benzo (a) pyrene	0.025	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND		
Dibenzo(a,h)anthracene	0.025	ND		
Benzo(g,h,i)perylene	0.025	ND		
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		76		
2-Fluorobiphenyl		65		
p-Terphenyl-d14		74		

ND: Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H023
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/18/2010
Batch No.:	0818-SVOCS	Date Reported:	8/20/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.19	0.21	76	84	10	≤30	50-150
Acenaphthylene	ND	0.25	0.19	0.22	76	88	15	≤30	50-150
Acenaphthene	ND	0.25	0.21	0.24	84	96	13	≤30	50-150
Fluorene	ND	0.25	0.16	0.18	64	72	12	≤30	50-150
Phenanthrene	ND	0.25	0.17	0.21	68	84	21	≤30	50-150
Anthracene	ND	0.25	0.21	0.25	84	100	17	≤30	50-150
Fluoranthene	ND	0.25	0.18	0.17	72	68	6	≤30	50-150
Pyrene	ND	0.25	0.16	0.19	64	76	17	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.21	0.18	84	72	15	≤30	50-150
Chrysene	ND	0.25	0.18	0.17	72	68	6	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.16	0.19	64	76	17	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.16	0.20	64	80	22	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.17	0.21	68	84	21	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.18	0.21	72	84	15	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.18	0.22	72	88	20	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.17	0.20	68	80	16	≤30	50-150
Nitrobenzene-d5 %Rec.	78				72	81			50-150
2-Fluorobiphenyl %Rec.	81				71	78			50-150
p-Terphenyl-d14 %Rec.	85				69	72			50-150

ND: Not Detected (Below RL).



**Environmental
Laboratories, Inc.**

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Page 1 of 1
Lab Job Number B101023

CHAIN OF CUSTODY

Client Name <u>BEC</u>			Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested															
Address <u>17021 Beach Blvd. H.B. Ca 1</u>			<input checked="" type="checkbox"/> Chilled		<table border="1"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B(BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td><u>9270C SIM PMS</u></td> <td></td> <td></td> <td></td> </tr> </table>										EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<u>9270C SIM PMS</u>				<input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal
EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)											EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<u>9270C SIM PMS</u>									
Report Attention	Phone # <u>877-232-4620</u>	Fax: #	Sampled By <u>Brian Bayer</u>		<input checked="" type="checkbox"/> Intact		<input type="checkbox"/> Sample Seal																							
Project No./ Name		Project Site <u>Sunkist Ontario</u>																												
Client Sample ID	Lab Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container												Remarks												
<u>E-4-2</u>	<u>B101023-1</u>	<u>8/16/10</u>	<u>2:45pm</u>	<u>Soil</u>			X					X	X		X		X													

Relinquished By <u>Brian Bayer</u>	Company <u>BEC</u>	Date <u>8/16/10</u>	Time <u>3:25pm</u>	Received By <u>[Signature]</u>	Company <u>ABC</u>	Date <u>8/16/10</u>	Time <u>3:25pm</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

8/23/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 8/18/2010
Lab Job No.: B10H029

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 8/18/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0818-VOCS

Lab Job No.: B10H029
 Date Sampled: 8/18/2010
 Date Received: 8/18/2010
 Date Analyzed: 8/18/2010
 Date Reported: 8/23/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			08/18/10	08/18/10	
Dilution Factor			1	1	
Lab Sample I.D.			B10H029-1	Method Blank	
Client Sample I.D.			SP-11-C-1-1		
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	
Chloromethane	0.0018	0.005	ND	ND	
Vinyl Chloride	0.0018	0.005	ND	ND	
Bromomethane	0.0018	0.005	ND	ND	
Chloroethane	0.0018	0.005	ND	ND	
Trichlorofluoromethane	0.0018	0.005	ND	ND	
1,1-Dichloroethene	0.0018	0.005	ND	ND	
Carbon disulfide	0.0018	0.005	ND	ND	
Methylene chloride	0.0018	0.005	ND	ND	
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	
1,1-Dichloroethane	0.0018	0.005	ND	ND	
2,2-Dichloropropane	0.0018	0.005	ND	ND	
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	
Bromochloromethane	0.0018	0.005	ND	ND	
Chloroform	0.0018	0.005	ND	ND	
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	
Vinyl acetate	0.0018	0.005	ND	ND	
Carbontetrachloride	0.0018	0.005	ND	ND	
1,1-Dichloropropene	0.0018	0.005	ND	ND	
1,2-Dichloroethane	0.0018	0.005	ND	ND	
Benzene	0.001	0.002	ND	ND	
Trichloroethene	0.0018	0.005	ND	ND	
1,2-Dichloropropane	0.0018	0.005	ND	ND	
Methyl methacrylate	0.0018	0.005	ND	ND	
Dibromomethane	0.0018	0.005	ND	ND	
Bromodichloromethane	0.0018	0.005	ND	ND	
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Toluene	0.001	0.002	ND	ND	
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Ethylmethacrylate	0.0018	0.005	ND	ND	
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	
Dibromochloromethane	0.0018	0.005	ND	ND	
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	
Tetrachloroethene	0.0018	0.005	ND	ND	
1,3-Dichloropropane	0.0018	0.005	ND	ND	
Chlorobenzene	0.0018	0.005	ND	ND	

RL=Reporting Limit; ND=Not Detected (Below MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0818-VOCS

Lab Job No.: B10H029
 Date Sampled: 8/18/2010
 Date Received: 8/18/2010
 Date Analyzed: 8/18/2010
 Date Reported: 8/23/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		08/18/10	08/18/10		
Dilution Factor		1	1		
Lab Sample I.D.		B10H029-1	Method Blank		
Client Sample I.D.		SP-11-C-1-1			
Compound	MDL	RL			
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	
Total Xylene	0.002	0.004	ND	ND	
Styrene	0.0018	0.005	ND	ND	
Bromoform	0.0018	0.005	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	
Acetone	0.025	0.050	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	
MTBE	0.0018	0.005	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	
TAME	0.0018	0.005	ND	ND	
t-Butanol	0.010	0.020	ND	ND	
Ethanol	0.25	0.5	ND	ND	
Surrogate Recovery (%) QC Limit 70-130					
1,2-Dichloroethane-d4			81	92	
Toluene-d8			88	91	
4-Bromofluorobenzene			95	101	

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H029
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/18/2010
Batch No.:	0818-VOCS	Date Reported:	8/23/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.017	0.016	85	80	6	≤20	80-120
Benzene	ND	0.020	0.016	0.018	80	90	12	≤20	80-120
Trichloroethene	ND	0.020	0.018	0.020	90	100	11	≤20	80-120
Toluene	ND	0.020	0.018	0.021	90	105	15	≤20	80-120
Chlorobenzene	ND	0.020	0.018	0.020	90	100	11	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	92				89	92			70-130
Toluene-d8	91				92	96			70-130
4-Bromofluorobenzene	101				95	99			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H029
Project:	Sunkist	Date Sampled:	8/18/2010
Project Site:	Sunkist, Ontario	Date Received:	8/18/2010
Matrix:	Soil	Date Analyzed:	8/18/2010
Batch No.:	AH18-GS (TPH-G)	Date Analyzed:	8/18/2010
Batch No.:	BH18-DS (TPH-D)	Date Reported:	8/23/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%)	Surrogate(%)
		C4-C12	C12-C24	C24-C40	For Gasoline	For Diesel
	RL	0.1	10	50		
SP-11-C-1-1	B10H029-1	ND	ND	ND	91	86

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: AH18-GS

Lab Job No.: B10H029
Lab Sample ID: LCS
Date Analyzed: 8/18/2010
Date Reported: 8/23/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	1.02	1.05	102	105	3	≤20	80-120
Surrogate (%)	91				95	98			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10H029

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 8/18/2010

Batch No.: BH18-DS

Date Reported: 8/23/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	421	456	84	91	8	≤20	80-120
Surrogate (%)	91				85	89			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H029
Project:	Sunkist	Date Sampled:	8/18/2010
Project Site:	Sunkist, Ontario	Date Received:	8/18/2010
Matrix:	Soil	Date Extracted:	8/18/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/19/2010
Batch No.:	0819-PES-S	Date Reported:	8/23/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1		
LAB SAMPLE I.D.		B10H029-1	Method Blank		
CLIENT SAMPLE I.D.		SP-11-C-1-1			
COMPOUND	RL				
α-BHC	5	ND	ND		
γ-BHC	5	ND	ND		
Heptachlor	5	ND	ND		
Aldrin	5	ND	ND		
β-BHC	5	ND	ND		
δ-BHC	5	ND	ND		
α-Chlordane	5	ND	ND		
γ-Chlordane	5	ND	ND		
Heptachlor Epoxide	5	ND	ND		
Endosulfan I	5	ND	ND		
4,4'-DDE	5	ND	ND		
Dieldrin	5	ND	ND		
Endrin	5	ND	ND		
Endosulfan II	5	ND	ND		
4,4'-DDD	5	ND	ND		
4,4'-DDT	5	ND	ND		
Endrin Aldehyde	5	ND	ND		
Endosulfan Sulfate	5	ND	ND		
Methoxychlor	20	ND	ND		
Endrin Ketone	10	ND	ND		
Technical Chlordane	25	ND	ND		
Toxaphene	100	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140			
2,4,5,6-Tetrachloro-m-xylene		91	95		
Decachlorobiphenyl		102	102		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0819-PES-S

Lab Job No.: B10H029
Lab Sample ID: LCS
Date Analyzed: 8/19/2010
Date Reported: 8/23/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	17.1	18.2	86	91	6	≤ 30	50-150
Heptachlor	ND	20	18.2	17.1	91	86	6	≤ 30	50-150
Aldrin	ND	20	17.5	17.2	88	86	2	≤ 30	50-140
Dieldrin	ND	40	31.2	33.1	78	83	6	≤ 30	70-130
Endrin	ND	40	38.1	35.5	95	89	7	≤ 30	70-150
4,4'-DDT	ND	40	33.5	36.1	84	90	7	≤ 30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	95				91	95			65-140
DCP	102				88	89			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H029
Project:	Sunkist	Date Sampled:	8/18/2010
Project Site:	Sunkist, Ontario	Date Received:	8/18/2010
Matrix:	Soil	Date Extracted:	8/18/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/19/2010
Batch No.:	0819-PCBS	Date Reported:	8/23/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1			
LAB SAMPLE I.D.		B10H029-1	Method Blank			
CLIENT SAMPLE I.D.		SP-11-C-1-1				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	2370	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		91	95			
Decachlorobiphenyl		102	102			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0819-PCBS

Lab Job No.: B10H029
Lab Sample ID: LCS
Date Analyzed: 8/19/2010
Date Reported: 8/23/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	415	421	83	84	1	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	95				80	89			65-140
DCP	102				92	101			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H029
Project:	Sunkist	Date Sampled:	8/18/2010
Project Site:	Sunkist, Ontario	Date Received:	8/18/2010
Matrix:	Soil	Date Digested:	8/18/2010
Digestion Method:	3050B	Date Analyzed:	8/18/2010
Batch No.:	0818-MTS	Date Reported:	8/23/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10H029-1				Report Limit
		SP-11-C-1-1				
Antimony (Sb)	6010B	ND				10
Arsenic (As)	6010B	7.55				0.5
Barium (Ba)	6010B	108				5.0
Beryllium (Be)	6010B	ND				2.5
Cadmium (Cd)	6010B	ND				2.5
Chromium (Cr)	6010B	45.9				2.5
Cobalt (Co)	6010B	7.35				2.5
Copper (Cu)	6010B	162				2.5
Lead (Pb)	6010B	78.3				2.5
Mercury (Hg)	7471A	ND				0.1
Molybdenum (Mo)	6010B	ND				5.0
Nickel (Ni)	6010B	90				2.5
Selenium (Se)	6010B	ND				0.5
Silver (Ag)	6010B	ND				2.5
Thallium (Tl)	6010B	ND				2.5
Vanadium (V)	6010B	47.5				5.0
Zinc (Zn)	6010B	125				2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H029
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/18/2010
Batch No.:	0818-MTS	Date Reported:	8/23/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	25	25.0	24.8	100	99	1	≤20	80-120
Arsenic (As)	6010B	ND	25	25.8	27.9	103	112	8	≤20	80-120
Barium (Ba)	6010B	ND	25	24.2	24.2	97	97	0	≤20	80-120
Beryllium (Be)	6010B	ND	25	24.7	25.7	99	103	4	≤20	80-120
Cadmium (Cd)	6010B	ND	25	25.3	26.1	101	104	3	≤20	80-120
Chromium (Cr)	6010B	ND	25	24.3	24.2	97	97	0	≤20	80-120
Cobalt (Co)	6010B	ND	25	25.6	27.1	102	108	6	≤20	80-120
Copper (Cu)	6010B	ND	25	25.2	26.1	101	104	4	≤20	80-120
Lead (Pb)	6010B	ND	25	25.1	25.7	100	103	2	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.75	1.82	88	91	4	≤20	80-120
Molybdenum (Mo)	6010B	ND	25	24.6	23.5	98	94	5	≤20	80-120
Nickel (Ni)	6010B	ND	25	24.9	25.1	100	100	1	≤20	80-120
Selenium (Se)	6010B	ND	25	25.1	26.1	100	104	4	≤20	80-120
Silver (Ag)	6010B	ND	25	24.6	24.9	98	100	1	≤20	80-120
Thallium (Tl)	6010B	ND	25	24.9	25.1	100	100	1	≤20	80-120
Vanadium (V)	6010B	ND	25	25.5	26.8	102	107	5	≤20	80-120
Zinc (Zn)	6010B	ND	25	24.9	25.3	100	101	2	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H029
Project :	Sunkist	Date Sampled:	8/18/2010
Project Site:	Sunkist, Ontario	Date Received:	8/18/2010
Matrix:	Soil	Date Extracted:	8/18/2010
Extraction Method:	3550B	Date Analyzed:	8/18/2010
Batch No.:	0818-SVOCS	Date Reported:	8/23/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		1		
Lab Sample I.D.		B10H029-1		
Client Sample I.D.		SP-11-C-1-1		
Compound	RL			
Naphthalene	0.025	ND		
Acenaphthylene	0.025	ND		
Acenaphthene	0.025	ND		
Fluorene	0.025	ND		
Phenanthrene	0.025	ND		
Anthracene	0.025	ND		
Fluoranthene	0.025	ND		
Pyrene	0.025	ND		
Benzo (a) anthracene	0.025	ND		
Chrysene	0.025	ND		
Benzo (b) fluoranthene	0.025	ND		
Benzo (k) fluoranthene	0.025	ND		
Benzo (a) pyrene	0.025	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND		
Dibenzo(a,h)anthracene	0.025	ND		
Benzo(g,h,i)perylene	0.025	ND		
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		81		
2-Fluorobiphenyl		83		
p-Terphenyl-d14		90		

ND: Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H029
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/18/2010
Batch No.:	0818-SVOCS	Date Reported:	8/23/2010

MB/LCS/LCSD Report

Unit: mg/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.19	0.21	76	84	10	≤30	50-150
Acenaphthylene	ND	0.25	0.19	0.22	76	88	15	≤30	50-150
Acenaphthene	ND	0.25	0.21	0.24	84	96	13	≤30	50-150
Fluorene	ND	0.25	0.16	0.18	64	72	12	≤30	50-150
Phenanthrene	ND	0.25	0.17	0.21	68	84	21	≤30	50-150
Anthracene	ND	0.25	0.21	0.25	84	100	17	≤30	50-150
Fluoranthene	ND	0.25	0.18	0.17	72	68	6	≤30	50-150
Pyrene	ND	0.25	0.16	0.19	64	76	17	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.21	0.18	84	72	15	≤30	50-150
Chrysene	ND	0.25	0.18	0.17	72	68	6	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.16	0.19	64	76	17	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.16	0.20	64	80	22	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.17	0.21	68	84	21	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.18	0.21	72	84	15	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.18	0.22	72	88	20	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.17	0.20	68	80	16	≤30	50-150
Nitrobenzene-d5 %Rec.	78				72	81			50-150
2-Fluorobiphenyl %Rec.	81				71	78			50-150
p-Terphenyl-d14 %Rec.	85				69	72			50-150

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested					
Address <u>7011 Beach Blvd. H.B. Car</u>		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal												<input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal					
Report Attention	Phone # Fax: # <u>877-232-4620</u>													Sampled By <u>Brian Bauer</u>					
Project No./ Name		Project Site <u>Sunkist Ontario</u>																	
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<u>8270c SIM PNAF</u>	Remarks
		Date	Time																
<u>SP-11-C-1-1</u>	<u>SP-11-C-1-1</u>	<u>8/18/10</u>	<u>12:45pm</u>	<u>Soil</u>			X					X	X		X			X	<u>BioH029-1</u>
Relinquished By <u>Brian Bauer</u>	Company <u>BEC</u>	Date <u>8/19/10</u>	Time <u>3:50pm</u>	Received By <u>[Signature]</u>	Company <u>ABC</u>	Date <u>8/18/10</u>	Time <u>3:50pm</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.											
Relinquished By	Company	Date	Time	Received By	Company	Date	Time												

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product, Preservative Code: IC=Ice, HC=HCl, HN=HNO₃, SH=NaOH, ST=Na₂S₂O₃, HS=H₂SO₄, * Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST= Steel Tube, B= Brass Tube, P=Plastic Bottle, V=VOA Vial, E= EnCore

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

8/30/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 8/18/2010
Lab Job No.: B10H029A

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 8/18/10 and analyzed by the following EPA methods:

WET Test (STLC Lead)
EPA 7196A(Chromium VI)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H029A
Project:	Sunkist	Date Sampled:	8/18/2010
Project Site:	Sunkist, Ontario	Date Received:	8/18/2010
Matrix:	Water	Date Digested:	8/30/2010
Digestion Method:	3010C	Date Analyzed:	8/30/2010
Batch No.:	0830-MTW	Date Reported:	8/30/2010

WET Test (STLC)

Report Unit: mg/L (PPM)

Element	Method	B10H029-1	Reporting Limit
		SP-11-C-1-1	
STLC Lead	EPA 6010B	3.86	0.1

Extraction Method: Waste Extraction Test (WET) Procedures, Title 22, Cal Wet 66700.

Date Extracted: 8/26/2010 8:30AM to 8/28/2010 8:30AM.

ABC Environmental Laboratories

EPA 6010B (Lead) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Water
Batch No.: 0830-MTW

Lab Job No.: B10H029A
Lab Sample ID: LCS
Date Analyzed: 8/30/2010
Date Reported: 8/30/2010

MB/LCS/LCSD Report

Unit: mg/L

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Lead (Pb)	6010B	ND	25.0	22.1	23.5	88	94	6	≤20	80-120

ND: Not Detected (at the specified limit).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H029A
Project :	Sunkist	Date Sampled:	8/18/2010
Project Site:	Sunkist, Ontario	Date Received:	8/18/2010
Matrix:	Soil	Date Analyzed:	8/26/2010
Batch No.:	DH26-CrVI	Date Reported:	8/30/2010

EPA 7196A(Chromium VI)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Chromium VI		
	Reporting Limit	0.1		
SP-11-C-1-1	B10H029-1	ND		

ND=Not Detected (Below RL).

ABC Environmental Laboratories

EPA 7196A (Chromium VI) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: DH26-CrVI

Lab Job No.: B10H029A
Lab Sample ID: LCS
Date Analyzed: 8/26/2010
Date Reported: 8/30/2010

MB/LCS/LCSD Report

Unit: mg/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
Cr(VI)	ND	5.0	4.85	5.01	97	100	3	≤20	80-120

ND: Not Detected (Below RL).



**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761
Tel: 562-413-8343
Tel/ Fax: 909-923-8628

Page 1 of 1
Lab Job Number B10H 029A

CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested	
Address (7011 Beach Blvd. H.B. Car		<input checked="" type="checkbox"/> Chilled		EPA8260B (VOCs & Oxygenates) <input type="checkbox"/> EPA8260B(BTEX & Oxygenates) <input type="checkbox"/> EPA8021B (BTEX & MTBE) <input type="checkbox"/> EPA8015M / 8015B (Gasoline) <input type="checkbox"/> EPA8015M / 8015B (Diesel) <input type="checkbox"/> EPA8081A (Organochlorine Pesticides) <input type="checkbox"/> EPA 8082 (PCBs) <input type="checkbox"/> EPA418.1 (TRPH) <input type="checkbox"/> EPA8015M (Carbon Chain) <input type="checkbox"/> EPA 7000s (Metals) <input type="checkbox"/> CAM 17 Metals <input type="checkbox"/> 8270c SIM PNAE <input checked="" type="checkbox"/> STLC Lead <input checked="" type="checkbox"/> Hex Chromium <input checked="" type="checkbox"/>										<input type="checkbox"/> Rush 8 12 24 48 Hours	
Report Attention	Phone # Fax: # 877-232-4620	<input type="checkbox"/> Intact												<input type="checkbox"/> Normal	
Project No./ Name	Project Site Sunkist Ontario		<input type="checkbox"/> Sample Seal		Remarks B10H029-1 O: Requested on 8/25/10 via e-mail										
Client Sample ID	Lab Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type											Sample Preserve
SP-11-C-1-1	SP-11-C-1-1	8/18/10	12:45pm	Soil											

Relinquished By Brian Bauer	Company BEC	Date 8/19/10	Time 3:50pm	Received By <i>[Signature]</i>	Company ABC	Date 8/18/10	Time 3:50pm	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

8/24/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 8/19/2010
Lab Job No.: B10H030

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 8/19/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0822-VOCS

Lab Job No.: B10H030
 Date Sampled: 8/19/2010
 Date Received: 8/19/2010
 Date Analyzed: 8/22/2010
 Date Reported: 8/24/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			08/22/10	08/22/10	08/22/10
Dilution Factor			1	500*	1
Lab Sample I.D.			B10H030-1	B10H030-2	Method Blank
Client Sample I.D.			L-23-2	F-5-1	
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	ND
Chloromethane	0.0018	0.005	ND	ND	ND
Vinyl Chloride	0.0018	0.005	ND	ND	ND
Bromomethane	0.0018	0.005	ND	ND	ND
Chloroethane	0.0018	0.005	ND	ND	ND
Trichlorofluoromethane	0.0018	0.005	ND	ND	ND
1,1-Dichloroethene	0.0018	0.005	ND	ND	ND
Carbon disulfide	0.0018	0.005	ND	ND	ND
Methylene chloride	0.0018	0.005	ND	ND	ND
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	ND
1,1-Dichloroethane	0.0018	0.005	ND	ND	ND
2,2-Dichloropropane	0.0018	0.005	ND	ND	ND
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	ND
Bromochloromethane	0.0018	0.005	ND	ND	ND
Chloroform	0.0018	0.005	ND	ND	ND
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	ND
Vinyl acetate	0.0018	0.005	ND	ND	ND
Carbontetrachloride	0.0018	0.005	ND	ND	ND
1,1-Dichloropropene	0.0018	0.005	ND	ND	ND
1,2-Dichloroethane	0.0018	0.005	ND	ND	ND
Benzene	0.001	0.002	ND	ND	ND
Trichloroethene	0.0018	0.005	ND	ND	ND
1,2-Dichloropropane	0.0018	0.005	ND	ND	ND
Methyl methacrylate	0.0018	0.005	ND	ND	ND
Dibromomethane	0.0018	0.005	ND	ND	ND
Bromodichloromethane	0.0018	0.005	ND	ND	ND
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	ND
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	ND
Toluene	0.001	0.002	ND	ND	ND
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	ND
Ethylmethacrylate	0.0018	0.005	ND	ND	ND
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	ND
Dibromochloromethane	0.0018	0.005	ND	ND	ND
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	ND
Tetrachloroethene	0.0018	0.005	ND	ND	ND
1,3-Dichloropropane	0.0018	0.005	ND	ND	ND
Chlorobenzene	0.0018	0.005	ND	ND	ND

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x MDL); MDL= Method Detection Limit.

*: High Dilution Factor Due To High Concentration of Hydrocarbons Other Than 8260B Compounds.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0822-VOCS

Lab Job No.: B10H030
 Date Sampled: 8/19/2010
 Date Received: 8/19/2010
 Date Analyzed: 8/22/2010
 Date Reported: 8/24/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		08/22/10	08/22/10	08/22/10	
Dilution Factor			1	500*	1
Lab Sample I.D.			B10H030-1	B10H030-2	Method Blank
Client Sample I.D.			L-23-2	F-5-1	
Compound	MDL	RL			
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	ND
Ethylbenzene	0.001	0.002	ND	ND	ND
Total Xylene	0.002	0.004	ND	ND	ND
Styrene	0.0018	0.005	ND	ND	ND
Bromoform	0.0018	0.005	ND	ND	ND
Isopropyl benzene	0.0018	0.005	ND	ND	ND
Bromobenzene	0.0018	0.005	ND	ND	ND
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	ND
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	ND
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	ND
2-Chlorotoluene	0.0018	0.005	ND	ND	ND
n-Propyl benzene	0.0018	0.005	ND	ND	ND
4-Chlorotoluene	0.0018	0.005	ND	ND	ND
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	ND
tert-Butylbenzene	0.0018	0.005	ND	ND	ND
p-Isopropyl toluene	0.0018	0.005	ND	ND	ND
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	ND
sec-Butylbenzene	0.0018	0.005	ND	ND	ND
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	ND
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	ND
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	ND
n-Butylbenzene	0.0018	0.005	ND	ND	ND
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	ND
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	ND
Hexachlorobutadiene	0.0018	0.005	ND	ND	ND
Naphthalene	0.0018	0.005	ND	ND	ND
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	ND
Acetone	0.025	0.050	ND	ND	ND
2-Butanone(MEK)	0.01	0.025	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	ND
MTBE	0.0018	0.005	ND	ND	ND
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	ND
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	ND
TAME	0.0018	0.005	ND	ND	ND
t-Butanol	0.010	0.020	ND	ND	ND
Ethanol	0.25	0.5	ND	ND	ND
Surrogate Recovery (%) QC Limit 70-130					
1,2-Dichloroethane-d4			95	89	95
Toluene-d8			91	90	96
4-Bromofluorobenzene			102	95	102

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

*: High Dilution Factor Due To High Concentration of Hydrocarbons Other Than 8260B Compounds.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H030
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/22/2010
Batch No.:	0822-VOCS	Date Reported:	8/24/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.017	0.016	85	80	6	≤20	80-120
Benzene	ND	0.020	0.018	0.017	90	85	6	≤20	80-120
Trichloroethene	ND	0.020	0.019	0.018	95	90	5	≤20	80-120
Toluene	ND	0.020	0.021	0.018	105	90	15	≤20	80-120
Chlorobenzene	ND	0.020	0.020	0.017	100	85	16	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	95				89	86			70-130
Toluene-d8	96				92	92			70-130
4-Bromofluorobenzene	102				91	95			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H030
Project:	Sunkist	Date Sampled:	8/19/2010
Project Site:	Sunkist, Ontario	Date Received:	8/19/2010
Matrix:	Soil	Date Analyzed:	8/21/2010
Batch No.:	AH21-GS (TPH-G)	Date Analyzed:	8/21/2010
Batch No.:	BH21-DS (TPH-D)	Date Reported:	8/24/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%) For Gasoline	Surrogate(%) For Diesel
		C4-C12	C12-C24	C24-C40		
	RL	0.1	10	50		
L-23-2	B10H030-1	ND	9660	456	95	84
F-5-1	B10H030-2	537	7330	574	89	92

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline)

Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H030
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/21/2010
Batch No.:	AH21-GS	Date Reported:	8/24/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	1.12	1.15	112	115	3	≤20	80-120
Surrogate (%)	91				92	102			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: BH21-DS

Lab Job No.: B10H030
Lab Sample ID: LCS
Date Analyzed: 8/21/2010
Date Reported: 8/24/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	425	436	85	87	3	≤20	80-120
Surrogate (%)	89				78	80			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H030
Project:	Sunkist	Date Sampled:	8/19/2010
Project Site:	Sunkist, Ontario	Date Received:	8/19/2010
Matrix:	Soil	Date Extracted:	8/21/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/22/2010
Batch No.:	0822-PES-S	Date Reported:	8/24/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1	1		
LAB SAMPLE I.D.		B10H030-1	B10H030-2	Method Blank		
CLIENT SAMPLE I.D.		L-23-2	F-5-1			
COMPOUND	RL					
α-BHC	5	ND	ND	ND		
γ-BHC	5	ND	ND	ND		
Heptachlor	5	ND	ND	ND		
Aldrin	5	ND	ND	ND		
β-BHC	5	ND	ND	ND		
δ-BHC	5	ND	ND	ND		
α-Chlordane	5	ND	ND	ND		
γ-Chlordane	5	ND	ND	ND		
Heptachlor Epoxide	5	ND	ND	ND		
Endosulfan I	5	ND	ND	ND		
4,4'-DDE	5	ND	ND	ND		
Dieldrin	5	ND	ND	ND		
Endrin	5	ND	ND	ND		
Endosulfan II	5	ND	ND	ND		
4,4'-DDD	5	ND	ND	ND		
4,4'-DDT	5	ND	ND	ND		
Endrin Aldehyde	5	ND	ND	ND		
Endosulfan Sulfate	5	ND	ND	ND		
Methoxychlor	20	ND	ND	ND		
Endrin Ketone	10	ND	ND	ND		
Technical Chlordane	25	ND	ND	ND		
Toxaphene	100	ND	ND	ND		
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		105	110	81		
Decachlorobiphenyl		112	123	95		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0822-PES-S

Lab Job No.: B10H030
Lab Sample ID: LCS
Date Analyzed: 8/22/2010
Date Reported: 8/24/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	21.2	17.5	106	88	19	≤30	50-150
Heptachlor	ND	20	19.8	17.6	99	88	12	≤30	50-150
Aldrin	ND	20	18.1	19.5	91	98	7	≤30	50-140
Dieldrin	ND	40	35.2	35.6	88	89	1	≤30	70-130
Endrin	ND	40	39.2	34.2	98	86	14	≤30	70-150
4,4'-DDT	ND	40	32.5	33.1	81	83	2	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	81				84	95			65-140
DCP	95				96	101			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H030
Project:	Sunkist	Date Sampled:	8/19/2010
Project Site:	Sunkist, Ontario	Date Received:	8/19/2010
Matrix:	Soil	Date Extracted:	8/21/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/22/2010
Batch No.:	0822-PES-S	Date Reported:	8/24/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1		
LAB SAMPLE I.D.		B10H030-1	B10H030-2	Method Blank		
CLIENT SAMPLE I.D.		L-23-2	F-5-1			
COMPOUND	RL					
PCB-1016	25	ND	ND	ND		
PCB-1221	50	ND	ND	ND		
PCB-1232	25	ND	ND	ND		
PCB-1242	25	ND	ND	ND		
PCB-1248	25	ND	ND	ND		
PCB-1254	25	175	75	ND		
PCB-1260	25	ND	ND	ND		
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		105	110	81		
Decachlorobiphenyl		112	123	95		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0822-PCBS

Lab Job No.: B10H030
Lab Sample ID: LCS
Date Analyzed: 8/22/2010
Date Reported: 8/24/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	410	440	82	88	7	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	81				112	108			65-140
DCP	95				105	120			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H030
Project:	Sunkist	Date Sampled:	8/19/2010
Project Site:	Sunkist, Ontario	Date Received:	8/19/2010
Matrix:	Soil	Date Digested:	8/21/2010
Digestion Method:	3050B	Date Analyzed:	8/22/2010
Batch No.:	0822-MTS	Date Reported:	8/24/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10H030-1	B10H030-2			Report Limit
		L-23-2	F-5-1			
Antimony (Sb)	6010B	ND	ND			10
Arsenic (As)	6010B	6.89	5.26			0.5
Barium (Ba)	6010B	73.6	53.2			5.0
Beryllium (Be)	6010B	ND	ND			2.5
Cadmium (Cd)	6010B	ND	ND			2.5
Chromium (Cr)	6010B	26.3	15.9			2.5
Cobalt (Co)	6010B	6.76	4.41			2.5
Copper (Cu)	6010B	22.9	11.3			2.5
Lead (Pb)	6010B	17.6	2.9			2.5
Mercury (Hg)	7471A	ND	ND			0.1
Molybdenum (Mo)	6010B	ND	ND			5.0
Nickel (Ni)	6010B	10.1	6.2			2.5
Selenium (Se)	6010B	ND	ND			0.5
Silver (Ag)	6010B	ND	ND			2.5
Thallium (Tl)	6010B	ND	ND			2.5
Vanadium (V)	6010B	38.1	27.6			5.0
Zinc (Zn)	6010B	80.9	81.9			2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H030
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/22/2010
Batch No.:	0822-MTS	Date Reported:	8/24/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	25	23.1	22.5	92	90	3	≤20	80-120
Arsenic (As)	6010B	ND	25	24.2	22.3	97	89	8	≤20	80-120
Barium (Ba)	6010B	ND	25	22.5	21.6	90	86	4	≤20	80-120
Beryllium (Be)	6010B	ND	25	20.8	21.2	83	85	2	≤20	80-120
Cadmium (Cd)	6010B	ND	25	21.3	22.6	85	90	6	≤20	80-120
Chromium (Cr)	6010B	ND	25	20.8	23.2	83	93	11	≤20	80-120
Cobalt (Co)	6010B	ND	25	22.2	23.1	89	92	4	≤20	80-120
Copper (Cu)	6010B	ND	25	20.6	21.4	82	86	4	≤20	80-120
Lead (Pb)	6010B	ND	25	22.3	24.2	89	97	8	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.85	1.91	93	96	3	≤20	80-120
Molybdenum (Mo)	6010B	ND	25	23.2	24.6	93	98	6	≤20	80-120
Nickel (Ni)	6010B	ND	25	22.2	23.1	89	92	4	≤20	80-120
Selenium (Se)	6010B	ND	25	24.5	25.1	98	100	2	≤20	80-120
Silver (Ag)	6010B	ND	25	23.2	21.5	93	86	8	≤20	80-120
Thallium (Tl)	6010B	ND	25	22.5	24.6	90	98	9	≤20	80-120
Vanadium (V)	6010B	ND	25	20.8	21.5	83	86	3	≤20	80-120
Zinc (Zn)	6010B	ND	25	24.2	25.6	97	102	6	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H030
Project :	Sunkist	Date Sampled:	8/19/2010
Project Site:	Sunkist, Ontario	Date Received:	8/19/2010
Matrix:	Soil	Date Extracted:	8/21/2010
Extraction Method:	3550B	Date Analyzed:	8/22/2010
Batch No.:	0822-SVOCS	Date Reported:	8/24/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		50*	50*		
Lab Sample I.D.		B10H030-1	B10H030-2		
Client Sample I.D.		L-23-2	F-5-1		
Compound	RL				
Naphthalene	0.025	ND	ND		
Acenaphthylene	0.025	ND	ND		
Acenaphthene	0.025	ND	ND		
Fluorene	0.025	ND	ND		
Phenanthrene	0.025	ND	ND		
Anthracene	0.025	ND	ND		
Fluoranthene	0.025	ND	ND		
Pyrene	0.025	ND	ND		
Benzo (a) anthracene	0.025	ND	ND		
Chrysene	0.025	ND	ND		
Benzo (b) fluoranthene	0.025	ND	ND		
Benzo (k) fluoranthene	0.025	ND	ND		
Benzo (a) pyrene	0.025	ND	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND	ND		
Dibenzo(a,h)anthracene	0.025	ND	ND		
Benzo(g,h,i)perylene	0.025	ND	ND		
Surrogate Recovery (%) QC Limit 50-150					
Nitrobenzene-d5		78	81		
2-Fluorobiphenyl		80	75		
p-Terphenyl-d14		85	86		

ND: Not Detected (Below RL x Dilution Factor).

*: High Dilution Factor Due To High Concentration of Hydrocarbons Other Than PAHs.

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H030
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/22/2010
Batch No.:	0822-SVOCS	Date Reported:	8/24/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.17	0.20	68	80	16	≤30	50-150
Acenaphthylene	ND	0.25	0.18	0.21	72	84	15	≤30	50-150
Acenaphthene	ND	0.25	0.16	0.20	64	80	22	≤30	50-150
Fluorene	ND	0.25	0.17	0.21	68	84	21	≤30	50-150
Phenanthrene	ND	0.25	0.19	0.22	76	88	15	≤30	50-150
Anthracene	ND	0.25	0.16	0.19	64	76	17	≤30	50-150
Fluoranthene	ND	0.25	0.17	0.21	68	84	21	≤30	50-150
Pyrene	ND	0.25	0.18	0.17	72	68	6	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.16	0.18	64	72	12	≤30	50-150
Chrysene	ND	0.25	0.18	0.22	72	88	20	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.17	0.21	68	84	21	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.19	0.23	76	92	19	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.21	0.19	84	76	10	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.16	0.18	64	72	12	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.17	0.22	68	88	26	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.18	0.21	72	84	15	≤30	50-150
Nitrobenzene-d5 %Rec.	78				76	69			50-150
2-Fluorobiphenyl %Rec.	69				65	70			50-150
p-Terphenyl-d14 %Rec.	71				81	75			50-150

ND: Not Detected (Below RL).

CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested <input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal					
Address 17011 Beach Blvd, H.B. Ca.		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal																	
Report Attention	Phone # Fax: # 877-232-4620	Sampled By Brian Bauer																	
Project No./ Name	Project Site Sunkist Ontario																		
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	8270C SIM PMAS	Remarks
		Date	Time																
L-23-1		8/14/10	9:20am	Soil			X					X	X		X		X	X	hold
L-23-2	B10H030-1		9:20am	Soil			X					X	X		X		X	X	
L-23-3			10:15am	Soil			X					X	X		X		X	X	hold
F-5-1	B10H030-2		1:30pm	Soil			X					X	X		X		X	X	

Relinquished By Brian Bauer	Company BEC	Date 8/14/10	Time 3:30pm	Received By <i>[Signature]</i>	Company ABC	Date 8/19/10	Time 3:30pm	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

8/24/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 8/20/2010
Lab Job No.: B10H031

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 8/20/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0822-VOCS

Lab Job No.: B10H031
 Date Sampled: 8/20/2010
 Date Received: 8/20/2010
 Date Analyzed: 8/22/2010
 Date Reported: 8/24/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		08/22/10	08/22/10		
Dilution Factor		5000*	1		
Lab Sample I.D.		B10H031-1	Method Blank		
Client Sample I.D.		E-5-1			
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	
Chloromethane	0.0018	0.005	ND	ND	
Vinyl Chloride	0.0018	0.005	ND	ND	
Bromomethane	0.0018	0.005	ND	ND	
Chloroethane	0.0018	0.005	ND	ND	
Trichlorofluoromethane	0.0018	0.005	ND	ND	
1,1-Dichloroethene	0.0018	0.005	ND	ND	
Carbon disulfide	0.0018	0.005	ND	ND	
Methylene chloride	0.0018	0.005	ND	ND	
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	
1,1-Dichloroethane	0.0018	0.005	ND	ND	
2,2-Dichloropropane	0.0018	0.005	ND	ND	
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	
Bromochloromethane	0.0018	0.005	ND	ND	
Chloroform	0.0018	0.005	ND	ND	
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	
Vinyl acetate	0.0018	0.005	ND	ND	
Carbontetrachloride	0.0018	0.005	ND	ND	
1,1-Dichloropropene	0.0018	0.005	ND	ND	
1,2-Dichloroethane	0.0018	0.005	ND	ND	
Benzene	0.001	0.002	ND	ND	
Trichloroethene	0.0018	0.005	ND	ND	
1,2-Dichloropropane	0.0018	0.005	ND	ND	
Methyl methacrylate	0.0018	0.005	ND	ND	
Dibromomethane	0.0018	0.005	ND	ND	
Bromodichloromethane	0.0018	0.005	ND	ND	
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Toluene	0.001	0.002	ND	ND	
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Ethylmethacrylate	0.0018	0.005	ND	ND	
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	
Dibromochloromethane	0.0018	0.005	ND	ND	
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	
Tetrachloroethene	0.0018	0.005	ND	ND	
1,3-Dichloropropane	0.0018	0.005	ND	ND	
Chlorobenzene	0.0018	0.005	ND	ND	

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x MDL); MDL= Method Detection Limit.

*: High Dilution Factor Due To High Concentration of Hydrocarbons Other Than 8260B Compounds.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0822-VOCS

Lab Job No.: B10H031
 Date Sampled: 8/20/2010
 Date Received: 8/20/2010
 Date Analyzed: 8/22/2010
 Date Reported: 8/24/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		08/22/10	08/22/10		
Dilution Factor		5000*	1		
Lab Sample I.D.		B10H031-1	Method Blank		
Client Sample I.D.		E-5-1			
Compound	MDL	RL			
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	
Total Xylene	0.002	0.004	ND	ND	
Styrene	0.0018	0.005	ND	ND	
Bromoform	0.0018	0.005	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	
Acetone	0.025	0.050	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	
MTBE	0.0018	0.005	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	
TAME	0.0018	0.005	ND	ND	
t-Butanol	0.010	0.020	ND	ND	
Ethanol	0.25	0.5	ND	ND	
Surrogate Recovery (%) QC Limit 70-130					
1,2-Dichloroethane-d4			101	95	
Toluene-d8			95	96	
4-Bromofluorobenzene			112	102	

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

*: High Dilution Factor Due To High Concentration of Hydrocarbons Other Than 8260B Compounds.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client: Bowyer Environmental Lab Job No.: B10H031
Project: Sunkist Lab Sample ID: LCS
Matrix: Soil Date Analyzed: 8/22/2010
Batch No.: 0822-VOCS Date Reported: 8/24/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.017	0.016	85	80	6	≤20	80-120
Benzene	ND	0.020	0.018	0.017	90	85	6	≤20	80-120
Trichloroethene	ND	0.020	0.019	0.018	95	90	5	≤20	80-120
Toluene	ND	0.020	0.021	0.018	105	90	15	≤20	80-120
Chlorobenzene	ND	0.020	0.020	0.017	100	85	16	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	95				89	86			70-130
Toluene-d8	96				92	92			70-130
4-Bromofluorobenzene	102				91	95			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H031
Project:	Sunkist	Date Sampled:	8/20/2010
Project Site:	Sunkist, Ontario	Date Received:	8/20/2010
Matrix:	Soil	Date Analyzed:	8/21/2010
Batch No.:	AH21-GS (TPH-G)	Date Analyzed:	8/21/2010
Batch No.:	BH21-DS (TPH-D)	Date Reported:	8/24/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%)	Surrogate(%)
		C4-C12	C12-C24	C24-C40	For Gasoline	For Diesel
	RL	0.1	10	50		
E-5-1	B10H031-1	3320	70.7	ND	89	78

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: AH21-GS

Lab Job No.: B10H031
Lab Sample ID: LCS
Date Analyzed: 8/21/2010
Date Reported: 8/24/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method	Spike	LCS	LCSD	LCS	LCSD	%RPD	%RPD	%Rec
	Blank	Conc.			%Rec.	%rec.		Accept	Accept
								Limit	Limit
TPH-G	ND	1.0	1.12	1.15	112	115	3	≤20	80-120
Surrogate (%)	91				92	102			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: BH21-DS

Lab Job No.: B10H031
Lab Sample ID: LCS
Date Analyzed: 8/21/2010
Date Reported: 8/24/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	425	436	85	87	3	≤20	80-120
Surrogate (%)	89				78	80			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H031
Project:	Sunkist	Date Sampled:	8/20/2010
Project Site:	Sunkist, Ontario	Date Received:	8/20/2010
Matrix:	Soil	Date Extracted:	8/21/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/22/2010
Batch No.:	0822-PES-S	Date Reported:	8/24/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1		
LAB SAMPLE I.D.		B10H031-1	Method Blank		
CLIENT SAMPLE I.D.		E-5-1			
COMPOUND	RL				
α-BHC	5	ND	ND		
γ-BHC	5	ND	ND		
Heptachlor	5	ND	ND		
Aldrin	5	ND	ND		
β-BHC	5	ND	ND		
δ-BHC	5	ND	ND		
α-Chlordane	5	ND	ND		
γ-Chlordane	5	ND	ND		
Heptachlor Epoxide	5	ND	ND		
Endosulfan I	5	ND	ND		
4,4'-DDE	5	ND	ND		
Dieldrin	5	ND	ND		
Endrin	5	ND	ND		
Endosulfan II	5	ND	ND		
4,4'-DDD	5	ND	ND		
4,4'-DDT	5	ND	ND		
Endrin Aldehyde	5	ND	ND		
Endosulfan Sulfate	5	ND	ND		
Methoxychlor	20	ND	ND		
Endrin Ketone	10	ND	ND		
Technical Chlordane	25	ND	ND		
Toxaphene	100	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140			
2,4,5,6-Tetrachloro-m-xylene		78	81		
Decachlorobiphenyl		80	95		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0822-PES-S

Lab Job No.: B10H031
Lab Sample ID: LCS
Date Analyzed: 8/22/2010
Date Reported: 8/24/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	21.2	17.5	106	88	19	≤30	50-150
Heptachlor	ND	20	19.8	17.6	99	88	12	≤30	50-150
Aldrin	ND	20	18.1	19.5	91	98	7	≤30	50-140
Dieldrin	ND	40	35.2	35.6	88	89	1	≤30	70-130
Endrin	ND	40	39.2	34.2	98	86	14	≤30	70-150
4,4'-DDT	ND	40	32.5	33.1	81	83	2	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	81				84	95			65-140
DCP	95				96	101			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H031
Project:	Sunkist	Date Sampled:	8/20/2010
Project Site:	Sunkist, Ontario	Date Received:	8/20/2010
Matrix:	Soil	Date Extracted:	8/21/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/22/2010
Batch No.:	0822-PES-S	Date Reported:	8/24/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1			
LAB SAMPLE I.D.		B10H031-1	Method Blank			
CLIENT SAMPLE I.D.		E-5-1				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	180	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		78	81			
Decachlorobiphenyl		80	95			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0822-PCBS

Lab Job No.: B10H031
Lab Sample ID: LCS
Date Analyzed: 8/22/2010
Date Reported: 8/24/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	410	440	82	88	7	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	81				112	108			65-140
DCP	95				105	120			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H031
Project:	Sunkist	Date Sampled:	8/20/2010
Project Site:	Sunkist, Ontario	Date Received:	8/20/2010
Matrix:	Soil	Date Digested:	8/21/2010
Digestion Method:	3050B	Date Analyzed:	8/22/2010
Batch No.:	0822-MTS	Date Reported:	8/24/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10H031-1			Report Limit
		E-5-1			
Antimony (Sb)	6010B	ND			10
Arsenic (As)	6010B	4.46			0.5
Barium (Ba)	6010B	49.2			5.0
Beryllium (Be)	6010B	ND			2.5
Cadmium (Cd)	6010B	ND			2.5
Chromium (Cr)	6010B	16.8			2.5
Cobalt (Co)	6010B	5.17			2.5
Copper (Cu)	6010B	17.1			2.5
Lead (Pb)	6010B	4.89			2.5
Mercury (Hg)	7471A	ND			0.1
Molybdenum (Mo)	6010B	ND			5.0
Nickel (Ni)	6010B	7.05			2.5
Selenium (Se)	6010B	ND			0.5
Silver (Ag)	6010B	ND			2.5
Thallium (Tl)	6010B	ND			2.5
Vanadium (V)	6010B	26.3			5.0
Zinc (Zn)	6010B	36.7			2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H031
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/22/2010
Batch No.:	0822-MTS	Date Reported:	8/24/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	25	23.1	22.5	92	90	3	≤20	80-120
Arsenic (As)	6010B	ND	25	24.2	22.3	97	89	8	≤20	80-120
Barium (Ba)	6010B	ND	25	22.5	21.6	90	86	4	≤20	80-120
Beryllium (Be)	6010B	ND	25	20.8	21.2	83	85	2	≤20	80-120
Cadmium (Cd)	6010B	ND	25	21.3	22.6	85	90	6	≤20	80-120
Chromium (Cr)	6010B	ND	25	20.8	23.2	83	93	11	≤20	80-120
Cobalt (Co)	6010B	ND	25	22.2	23.1	89	92	4	≤20	80-120
Copper (Cu)	6010B	ND	25	20.6	21.4	82	86	4	≤20	80-120
Lead (Pb)	6010B	ND	25	22.3	24.2	89	97	8	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.85	1.91	93	96	3	≤20	80-120
Molybdenum (Mo)	6010B	ND	25	23.2	24.6	93	98	6	≤20	80-120
Nickel (Ni)	6010B	ND	25	22.2	23.1	89	92	4	≤20	80-120
Selenium (Se)	6010B	ND	25	24.5	25.1	98	100	2	≤20	80-120
Silver (Ag)	6010B	ND	25	23.2	21.5	93	86	8	≤20	80-120
Thallium (Tl)	6010B	ND	25	22.5	24.6	90	98	9	≤20	80-120
Vanadium (V)	6010B	ND	25	20.8	21.5	83	86	3	≤20	80-120
Zinc (Zn)	6010B	ND	25	24.2	25.6	97	102	6	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H031
Project :	Sunkist	Date Sampled:	8/20/2010
Project Site:	Sunkist, Ontario	Date Received:	8/20/2010
Matrix:	Soil	Date Extracted:	8/21/2010
Extraction Method:	3550B	Date Analyzed:	8/22/2010
Batch No.:	0822-SVOCS	Date Reported:	8/24/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		50*		
Lab Sample I.D.		B10H031-1		
Client Sample I.D.		E-5-1		
Compound	RL			
Naphthalene	0.025	ND		
Acenaphthylene	0.025	ND		
Acenaphthene	0.025	ND		
Fluorene	0.025	ND		
Phenanthrene	0.025	ND		
Anthracene	0.025	ND		
Fluoranthene	0.025	ND		
Pyrene	0.025	ND		
Benzo (a) anthracene	0.025	ND		
Chrysene	0.025	ND		
Benzo (b) fluoranthene	0.025	ND		
Benzo (k) fluoranthene	0.025	ND		
Benzo (a) pyrene	0.025	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND		
Dibenzo(a,h)anthracene	0.025	ND		
Benzo(g,h,i)perylene	0.025	ND		
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		75		
2-Fluorobiphenyl		68		
p-Terphenyl-d14		71		

ND: Not Detected (Below RL x Dilution Factor).

*: High Dilution Factor Due To High Concentration of Hydrocarbons Other Than PAHs.

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H031
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/22/2010
Batch No.:	0822-SVOCS	Date Reported:	8/24/2010

MB/LCS/LCSD Report

Unit: mg/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.17	0.20	68	80	16	≤30	50-150
Acenaphthylene	ND	0.25	0.18	0.21	72	84	15	≤30	50-150
Acenaphthene	ND	0.25	0.16	0.20	64	80	22	≤30	50-150
Fluorene	ND	0.25	0.17	0.21	68	84	21	≤30	50-150
Phenanthrene	ND	0.25	0.19	0.22	76	88	15	≤30	50-150
Anthracene	ND	0.25	0.16	0.19	64	76	17	≤30	50-150
Fluoranthene	ND	0.25	0.17	0.21	68	84	21	≤30	50-150
Pyrene	ND	0.25	0.18	0.17	72	68	6	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.16	0.18	64	72	12	≤30	50-150
Chrysene	ND	0.25	0.18	0.22	72	88	20	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.17	0.21	68	84	21	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.19	0.23	76	92	19	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.21	0.19	84	76	10	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.16	0.18	64	72	12	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.17	0.22	68	88	26	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.18	0.21	72	84	15	≤30	50-150
Nitrobenzene-d5 %Rec.	78				76	69			50-150
2-Fluorobiphenyl %Rec.	69				65	70			50-150
p-Terphenyl-d14 %Rec.	71				81	75			50-150

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name: Sunkist Ont REC
Address: 17011 Beach Blvd, H.B. Ca.
Report Attention: Phone # 877-232-4620, Fax: # 877-232-4620, Sampled By Brian Buyer
Project No./Name: Project Site Sunkist Ontario
Sample Receipt Conditions: Chilled, Intact
Analyses Requested: EPA8260B, EPA8260B, EPA8021B, EPA8015M, EPA8015M, EPA8081A, EPA 8082, EPA418.1, EPA8015M, EPA 7000s, CAM 17 Metals, 8270C SIM PNAS
Remarks: E-S-1, B10H031-1, 8/20/20, 11:35pm, Soil, IC ST, X, X, X, X, X

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste
SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product
Preservative Code: IC=Ice, HC=HCl, HN=HNO3
SH=NaOH, ST=Na2S2O3, HS=H2SO4
* Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST=Steel Tube
B= Brass Tube, P=Plastic Bottle, V=VOA Vial
E= EnCore
Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

8/30/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 8/24/2010
Lab Job No.: B10H035

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 8/24/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0826-VOCS

Lab Job No.: B10H035
 Date Sampled: 8/24/2010
 Date Received: 8/24/2010
 Date Analyzed: 8/26/2010
 Date Reported: 8/30/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			08/26/10	08/26/10	08/26/10	08/26/10
Dilution Factor			1	1	1000*	1
Lab Sample I.D.			B10H035-1	B10H035-2	B10H035-3	B10H035-4
Client Sample I.D.			F-4-1	D-5-1	D-5-2	D-4-1
Compound	MDL	RL				
Dichlorodifluoromethane	0.0018	0.005	ND	ND	ND	ND
Chloromethane	0.0018	0.005	ND	ND	ND	ND
Vinyl Chloride	0.0018	0.005	ND	ND	ND	ND
Bromomethane	0.0018	0.005	ND	ND	ND	ND
Chloroethane	0.0018	0.005	ND	ND	ND	ND
Trichlorofluoromethane	0.0018	0.005	ND	ND	ND	ND
1,1-Dichloroethene	0.0018	0.005	ND	ND	ND	ND
Carbon disulfide	0.0018	0.005	ND	ND	ND	ND
Methylene chloride	0.0018	0.005	ND	ND	ND	ND
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	ND	ND
1,1-Dichloroethane	0.0018	0.005	ND	ND	ND	ND
2,2-Dichloropropane	0.0018	0.005	ND	ND	ND	ND
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	ND	ND
Bromochloromethane	0.0018	0.005	ND	ND	ND	ND
Chloroform	0.0018	0.005	ND	ND	ND	ND
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	ND	ND
Vinyl acetate	0.0018	0.005	ND	ND	ND	ND
Carbontetrachloride	0.0018	0.005	ND	ND	ND	ND
1,1-Dichloropropene	0.0018	0.005	ND	ND	ND	ND
1,2-Dichloroethane	0.0018	0.005	ND	ND	ND	ND
Benzene	0.001	0.002	ND	ND	ND	ND
Trichloroethene	0.0018	0.005	ND	ND	ND	ND
1,2-Dichloropropane	0.0018	0.005	ND	ND	ND	ND
Methyl methacrylate	0.0018	0.005	ND	ND	ND	ND
Dibromomethane	0.0018	0.005	ND	ND	ND	ND
Bromodichloromethane	0.0018	0.005	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	ND	ND
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	ND	ND
Toluene	0.001	0.002	ND	ND	ND	ND
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	ND	ND
Ethylmethacrylate	0.0018	0.005	ND	ND	ND	ND
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	ND	ND
Dibromochloromethane	0.0018	0.005	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	ND	ND
Tetrachloroethene	0.0018	0.005	ND	ND	ND	ND
1,3-Dichloropropane	0.0018	0.005	ND	ND	ND	ND
Chlorobenzene	0.0018	0.005	ND	ND	ND	ND

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x MDL); MDL= Method Detection Limit.

*: High Dilution Factor Due To High Concentration of Hydrocarbons Other Than 8260B Compounds.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0826-VOCS

Lab Job No.: B10H035
 Date Sampled: 8/24/2010
 Date Received: 8/24/2010
 Date Analyzed: 8/26/2010
 Date Reported: 8/30/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			08/26/10	08/26/10	08/26/10	08/26/10
Dilution Factor			1	1	1000*	1
Lab Sample I.D.			B10H035-1	B10H035-2	B10H035-3	B10H035-4
Client Sample I.D.			F-4-1	D-5-1	D-5-2	D-4-1
Compound	MDL	RL				
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	ND	ND
Ethylbenzene	0.001	0.002	ND	ND	ND	ND
Total Xylene	0.002	0.004	ND	ND	ND	ND
Styrene	0.0018	0.005	ND	ND	ND	ND
Bromoform	0.0018	0.005	ND	ND	ND	ND
Isopropyl benzene	0.0018	0.005	ND	ND	ND	ND
Bromobenzene	0.0018	0.005	ND	ND	ND	ND
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	ND	ND
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	ND	ND
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	ND	ND
2-Chlorotoluene	0.0018	0.005	ND	ND	ND	ND
n-Propyl benzene	0.0018	0.005	ND	ND	ND	ND
4-Chlorotoluene	0.0018	0.005	ND	ND	ND	ND
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	ND	ND
tert-Butylbenzene	0.0018	0.005	ND	ND	ND	ND
p-Isopropyl toluene	0.0018	0.005	ND	ND	ND	ND
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	ND	ND
sec-Butylbenzene	0.0018	0.005	ND	ND	ND	ND
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	ND	ND
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	ND	ND
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	ND	ND
n-Butylbenzene	0.0018	0.005	ND	ND	ND	ND
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	ND	ND
Hexachlorobutadiene	0.0018	0.005	ND	ND	ND	ND
Naphthalene	0.0018	0.005	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	ND	ND
Acetone	0.025	0.050	ND	ND	ND	ND
2-Butanone(MEK)	0.01	0.025	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	ND	ND
MTBE	0.0018	0.005	ND	ND	ND	ND
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	ND	ND
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	ND	ND
TAME	0.0018	0.005	ND	ND	ND	ND
t-Butanol	0.010	0.020	ND	ND	ND	ND
Ethanol	0.25	0.5	ND	ND	ND	ND
Surrogate Recovery (%) QC Limit 70-130						
1,2-Dichloroethane-d4			91	89	96	88
Toluene-d8			95	90	99	91
4-Bromofluorobenzene			102	94	103	98

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

*: High Dilution Factor Due To High Concentration of Hydrocarbons Other Than 8260B Compounds.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H035
Project :	Sunkist	Date Sampled:	8/24/2010
Project Site:	Sunkist, Ontario	Date Received:	8/24/2010
Matrix:	Soil	Date Analyzed:	8/26/2010
Batch No.:	0826-VOCS	Date Reported:	8/30/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			08/26/10	08/26/10	08/26/10	08/26/10
Dilution Factor			1	1	1	1
Lab Sample I.D.			B10H035-5	B10H035-6	B10H035-7	Method Blank
Client Sample I.D.			D-4-2	D-5-3	D-5-4	
Compound	MDL	RL				
Dichlorodifluoromethane	0.0018	0.005	ND	ND	ND	ND
Chloromethane	0.0018	0.005	ND	ND	ND	ND
Vinyl Chloride	0.0018	0.005	ND	ND	ND	ND
Bromomethane	0.0018	0.005	ND	ND	ND	ND
Chloroethane	0.0018	0.005	ND	ND	ND	ND
Trichlorofluoromethane	0.0018	0.005	ND	ND	ND	ND
1,1-Dichloroethene	0.0018	0.005	ND	ND	ND	ND
Carbon disulfide	0.0018	0.005	ND	ND	ND	ND
Methylene chloride	0.0018	0.005	ND	ND	ND	ND
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	ND	ND
1,1-Dichloroethane	0.0018	0.005	ND	ND	ND	ND
2,2-Dichloropropane	0.0018	0.005	ND	ND	ND	ND
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	ND	ND
Bromochloromethane	0.0018	0.005	ND	ND	ND	ND
Chloroform	0.0018	0.005	ND	ND	ND	ND
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	ND	ND
Vinyl acetate	0.0018	0.005	ND	ND	ND	ND
Carbontetrachloride	0.0018	0.005	ND	ND	ND	ND
1,1-Dichloropropene	0.0018	0.005	ND	ND	ND	ND
1,2-Dichloroethane	0.0018	0.005	ND	ND	ND	ND
Benzene	0.001	0.002	ND	ND	ND	ND
Trichloroethene	0.0018	0.005	ND	ND	ND	ND
1,2-Dichloropropane	0.0018	0.005	ND	ND	ND	ND
Methyl methacrylate	0.0018	0.005	ND	ND	ND	ND
Dibromomethane	0.0018	0.005	ND	ND	ND	ND
Bromodichloromethane	0.0018	0.005	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	ND	ND
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	ND	ND
Toluene	0.001	0.002	ND	ND	ND	ND
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	ND	ND
Ethylmethacrylate	0.0018	0.005	ND	ND	ND	ND
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	ND	ND
Dibromochloromethane	0.0018	0.005	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	ND	ND
Tetrachloroethene	0.0018	0.005	ND	ND	ND	ND
1,3-Dichloropropane	0.0018	0.005	ND	ND	ND	ND
Chlorobenzene	0.0018	0.005	ND	ND	ND	ND

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H035
Project :	Sunkist	Date Sampled:	8/24/2010
Project Site:	Sunkist, Ontario	Date Received:	8/24/2010
Matrix:	Soil	Date Analyzed:	8/26/2010
Batch No.:	0826-VOCS	Date Reported:	8/30/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		08/26/10	08/26/10	08/26/10	08/26/10	
Dilution Factor		1	1	1	1	
Lab Sample I.D.		B10H035-5	B10H035-6	B10H035-7	Method Blank	
Client Sample I.D.		D-4-2	D-5-3	D-5-4		
Compound	MDL	RL				
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	ND	
Total Xylene	0.002	0.004	ND	ND	ND	
Styrene	0.0018	0.005	ND	ND	ND	
Bromoform	0.0018	0.005	ND	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	ND	
Acetone	0.025	0.050	ND	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	1.73	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	ND	
MTBE	0.0018	0.005	ND	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	ND	
TAME	0.0018	0.005	ND	ND	ND	
t-Butanol	0.010	0.020	ND	ND	ND	
Ethanol	0.25	0.5	ND	ND	ND	
Surrogate Recovery (%) QC Limit 70-130						
1,2-Dichloroethane-d4			85	79	92	85
Toluene-d8			91	85	96	88
4-Bromofluorobenzene			78	92	105	89

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0826-VOCS

Lab Job No.: B10H035
Lab Sample ID: LCS
Date Analyzed: 8/26/2010
Date Reported: 8/30/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.017	0.016	85	80	6	≤20	80-120
Benzene	ND	0.020	0.020	0.018	100	90	11	≤20	80-120
Trichloroethene	ND	0.020	0.019	0.017	95	85	11	≤20	80-120
Toluene	ND	0.020	0.023	0.022	115	110	4	≤20	80-120
Chlorobenzene	ND	0.020	0.023	0.021	115	105	9	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	85				102	98			70-130
Toluene-d8	88				94	102			70-130
4-Bromofluorobenzene	89				98	105			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H035
Project:	Sunkist	Date Sampled:	8/24/2010
Project Site:	Sunkist, Ontario	Date Received:	8/24/2010
Matrix:	Soil	Date Analyzed:	8/26/2010
Batch No.:	AH26-GS (TPH-G)	Date Analyzed:	8/26/2010
Batch No.:	BH26-DS (TPH-D)	Date Reported:	8/30/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%)	Surrogate(%)
		C4-C12	C12-C24	C24-C40	For Gasoline	For Diesel
	RL	0.1	10	50		
F-4-1	B10H035-1	ND	ND	ND	89	92
D-5-1	B10H035-2	ND	15.5	ND	90	85
D-5-2	B10H035-3	438	1870	459	95	81
D-4-1	B10H035-4	ND	ND	ND	85	76
D-4-2	B10H035-5	ND	ND	ND	91	102
D-5-3	B10H035-6	ND	ND	ND	89	95
D-5-4	B10H035-7	ND	67.5	ND	78	87

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline)

Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H035
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/26/2010
Batch No.:	AH26-GS	Date Reported:	8/30/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	1.05	0.98	105	98	7	≤20	80-120
Surrogate (%)	78				85	79			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10H035

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 8/26/2010

Batch No.: BH26-DS

Date Reported: 8/30/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	465	485	93	97	4	≤20	80-120
Surrogate (%)	89				91	89			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H035
Project:	Sunkist	Date Sampled:	8/24/2010
Project Site:	Sunkist, Ontario	Date Received:	8/24/2010
Matrix:	Soil	Date Extracted:	8/26/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/27/2010
Batch No.:	0827-PES-S	Date Reported:	8/30/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B10H035-1	B10H035-2	B10H035-3	B10H035-4	B10H035-5
CLIENT SAMPLE I.D.		F-4-1	D-5-1	D-5-2	D-4-1	D-4-2
COMPOUND	RL					
α-BHC	5	ND	ND	ND	ND	ND
γ-BHC	5	ND	ND	ND	ND	ND
Heptachlor	5	ND	ND	ND	ND	ND
Aldrin	5	ND	ND	ND	ND	ND
β-BHC	5	ND	ND	ND	ND	ND
δ-BHC	5	ND	ND	ND	ND	ND
α-Chlordane	5	ND	ND	ND	ND	ND
γ-Chlordane	5	ND	ND	ND	ND	ND
Heptachlor Epoxide	5	ND	ND	ND	ND	ND
Endosulfan I	5	ND	ND	ND	ND	ND
4,4'-DDE	5	ND	256	ND	16	ND
Dieldrin	5	ND	ND	ND	ND	ND
Endrin	5	ND	ND	ND	ND	ND
Endosulfan II	5	ND	ND	ND	ND	ND
4,4'-DDD	5	ND	31.8	ND	ND	ND
4,4'-DDT	5	ND	235	ND	12.3	ND
Endrin Aldehyde	5	ND	ND	ND	ND	ND
Endosulfan Sulfate	5	ND	ND	ND	ND	ND
Methoxychlor	20	ND	ND	ND	ND	ND
Endrin Ketone	10	ND	15	ND	ND	ND
Technical Chlordane	25	ND	ND	ND	ND	ND
Toxaphene	100	ND	ND	ND	ND	ND
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		78	85	79	90	85
Decachlorobiphenyl		81	90	85	102	92

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H035
Project:	Sunkist	Date Sampled:	8/24/2010
Project Site:	Sunkist, Ontario	Date Received:	8/24/2010
Matrix:	Soil	Date Extracted:	8/26/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/27/2010
Batch No.:	0827-PES-S	Date Reported:	8/30/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1	1		
LAB SAMPLE I.D.		B10H035-6	B10H035-7	Method Blank		
CLIENT SAMPLE I.D.		D-5-3	D-5-4			
COMPOUND	RL					
α-BHC	5	ND	ND	ND		
γ-BHC	5	ND	ND	ND		
Heptachlor	5	ND	ND	ND		
Aldrin	5	ND	ND	ND		
β-BHC	5	ND	ND	ND		
δ-BHC	5	ND	ND	ND		
α-Chlordane	5	ND	ND	ND		
γ-Chlordane	5	ND	ND	ND		
Heptachlor Epoxide	5	ND	ND	ND		
Endosulfan I	5	ND	ND	ND		
4,4'-DDE	5	19.9	ND	ND		
Dieldrin	5	ND	ND	ND		
Endrin	5	ND	ND	ND		
Endosulfan II	5	ND	ND	ND		
4,4'-DDD	5	ND	ND	ND		
4,4'-DDT	5	ND	ND	ND		
Endrin Aldehyde	5	ND	ND	ND		
Endosulfan Sulfate	5	ND	ND	ND		
Methoxychlor	20	ND	ND	ND		
Endrin Ketone	10	ND	ND	ND		
Technical Chlordane	25	ND	ND	ND		
Toxaphene	100	ND	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		89	78	89		
Decachlorobiphenyl		92	81	90		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0827-PES-S

Lab Job No.: B10H035
Lab Sample ID: LCS
Date Analyzed: 8/27/2010
Date Reported: 8/30/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	20.1	18.2	101	91	10	≤30	50-150
Heptachlor	ND	20	18.2	16.5	91	83	10	≤30	50-150
Aldrin	ND	20	17.3	18.1	87	91	5	≤30	50-140
Dieldrin	ND	40	35.6	36.7	89	92	3	≤30	70-130
Endrin	ND	40	33.4	35.2	84	88	5	≤30	70-150
4,4'-DDT	ND	40	36.1	37.3	90	93	3	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	89				103	112			65-140
DCP	90				105	125			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H035
Project:	Sunkist	Date Sampled:	8/24/2010
Project Site:	Sunkist, Ontario	Date Received:	8/24/2010
Matrix:	Soil	Date Extracted:	8/26/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/27/2010
Batch No.:	0827-PES-S	Date Reported:	8/30/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B10H035-1	B10H035-2	B10H035-3	B10H035-4	B10H035-5
CLIENT SAMPLE I.D.		F-4-1	D-5-1	D-5-2	D-4-1	D-4-2
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	ND	372	250	43.5	ND
PCB-1260	25	ND	ND	ND	ND	ND
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		78	85	79	90	85
Decachlorobiphenyl		81	90	85	102	92

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H035
Project:	Sunkist	Date Sampled:	8/24/2010
Project Site:	Sunkist, Ontario	Date Received:	8/24/2010
Matrix:	Soil	Date Extracted:	8/26/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/27/2010
Batch No.:	0827-PES-S	Date Reported:	8/30/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1		
LAB SAMPLE I.D.		B10H035-6	B10H035-7	Method Blank		
CLIENT SAMPLE I.D.		D-5-3	D-5-4			
COMPOUND	RL					
PCB-1016	25	ND	ND	ND		
PCB-1221	50	ND	ND	ND		
PCB-1232	25	ND	ND	ND		
PCB-1242	25	ND	ND	ND		
PCB-1248	25	ND	ND	ND		
PCB-1254	25	63.1	ND	ND		
PCB-1260	25	ND	ND	ND		
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		89	78	89		
Decachlorobiphenyl		92	81	90		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0827-PCBS

Lab Job No.: B10H035
Lab Sample ID: LCS
Date Analyzed: 8/27/2010
Date Reported: 8/30/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	430	475	86	95	10	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	89				102	121			65-140
DCP	90				110	130			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client: Bowyer Environmental Lab Job No.: B10H035
Project: Sunkist Date Sampled: 8/24/2010
Project Site: Sunkist, Ontario Date Received: 8/24/2010
Matrix: Soil Date Digested: 8/25/2010
Digestion Method: 3050B Date Analyzed: 8/26/2010
Batch No.: 0826-MTS Date Reported: 8/30/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10H035-1	B10H035-2	B10H035-3	B10H035-4	Report Limit
		F-4-1	D-5-1	D-5-2	D-4-1	
Antimony (Sb)	6010B	ND	ND	ND	ND	10
Arsenic (As)	6010B	8.78	8.32	5.17	11.9	0.5
Barium (Ba)	6010B	56.6	52.8	45.1	84.7	5.0
Beryllium (Be)	6010B	ND	ND	ND	ND	2.5
Cadmium (Cd)	6010B	ND	ND	ND	ND	2.5
Chromium (Cr)	6010B	23.7	21.3	16.7	28.1	2.5
Cobalt (Co)	6010B	8.19	8.47	5.54	11.9	2.5
Copper (Cu)	6010B	14.6	13.9	41.3	18.1	2.5
Lead (Pb)	6010B	3.12	4.13	13.1	3.54	2.5
Mercury (Hg)	7471A	ND	ND	ND	ND	0.1
Molybdenum (Mo)	6010B	ND	ND	ND	ND	5.0
Nickel (Ni)	6010B	9.24	9.31	12.0	12.4	2.5
Selenium (Se)	6010B	ND	ND	ND	ND	0.5
Silver (Ag)	6010B	ND	ND	ND	ND	2.5
Thallium (Tl)	6010B	ND	ND	ND	ND	2.5
Vanadium (V)	6010B	38.9	36.6	20.4	51	5.0
Zinc (Zn)	6010B	42.8	45.6	158	59.3	2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H035
Project:	Sunkist	Date Sampled:	8/24/2010
Project Site:	Sunkist, Ontario	Date Received:	8/24/2010
Matrix:	Soil	Date Digested:	8/25/2010
Digestion Method:	3050B	Date Analyzed:	8/26/2010
Batch No.:	0826-MTS	Date Reported:	8/30/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10H035-5	B10H035-6	B10H035-7	Report Limit
		D-4-2	D-5-3	D-5-4	
Antimony (Sb)	6010B	ND	ND	ND	10
Arsenic (As)	6010B	9.52	11.5	10.4	0.5
Barium (Ba)	6010B	46.8	77.7	74.2	5.0
Beryllium (Be)	6010B	ND	ND	ND	2.5
Cadmium (Cd)	6010B	ND	ND	ND	2.5
Chromium (Cr)	6010B	23.0	28.4	24.4	2.5
Cobalt (Co)	6010B	9.38	12.2	10.6	2.5
Copper (Cu)	6010B	15.1	21.5	16.4	2.5
Lead (Pb)	6010B	3.21	5.62	9.45	2.5
Mercury (Hg)	7471A	ND	ND	ND	0.1
Molybdenum (Mo)	6010B	ND	ND	ND	5.0
Nickel (Ni)	6010B	10.6	14.4	11.8	2.5
Selenium (Se)	6010B	ND	ND	ND	0.5
Silver (Ag)	6010B	ND	ND	ND	2.5
Thallium (Tl)	6010B	ND	ND	ND	2.5
Vanadium (V)	6010B	40.0	50.9	45.1	5.0
Zinc (Zn)	6010B	49.4	68.7	57.7	2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H035
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/26/2010
Batch No.:	0826-MTS	Date Reported:	8/30/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	25	22.2	23.1	89	92	4	≤20	80-120
Arsenic (As)	6010B	ND	25	23.1	21.2	92	85	9	≤20	80-120
Barium (Ba)	6010B	ND	25	20.5	22.7	82	91	10	≤20	80-120
Beryllium (Be)	6010B	ND	25	22.3	23.8	89	95	7	≤20	80-120
Cadmium (Cd)	6010B	ND	25	22.1	24.6	88	98	11	≤20	80-120
Chromium (Cr)	6010B	ND	25	21.2	21.5	85	86	1	≤20	80-120
Cobalt (Co)	6010B	ND	25	24.1	24.3	96	97	1	≤20	80-120
Copper (Cu)	6010B	ND	25	23.2	22.6	93	90	3	≤20	80-120
Lead (Pb)	6010B	ND	25	20.4	21.2	82	85	4	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.91	1.85	96	93	3	≤20	80-120
Molybdenum (Mo)	6010B	ND	25	22.5	23.2	90	93	3	≤20	80-120
Nickel (Ni)	6010B	ND	25	21.6	21.5	86	86	0	≤20	80-120
Selenium (Se)	6010B	ND	25	23.3	22.3	93	89	4	≤20	80-120
Silver (Ag)	6010B	ND	25	24.5	23.4	98	94	5	≤20	80-120
Thallium (Tl)	6010B	ND	25	25.1	22.6	100	90	10	≤20	80-120
Vanadium (V)	6010B	ND	25	23.5	24.1	94	96	3	≤20	80-120
Zinc (Zn)	6010B	ND	25	22.6	23.4	90	94	3	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H035
Project :	Sunkist	Date Sampled:	8/24/2010
Project Site:	Sunkist, Ontario	Date Received:	8/24/2010
Matrix:	Soil	Date Extracted:	8/26/2010
Extraction Method:	3550B	Date Analyzed:	8/27/2010
Batch No.:	0827-SVOCS	Date Reported:	8/30/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		1	1	1	1
Lab Sample I.D.		B10H035-1	B10H035-2	B10H035-3	B10H035-4
Client Sample I.D.		F-4-1	D-5-1	D-5-2	D-4-1
Compound	RL				
Naphthalene	0.025	ND	ND	ND	ND
Acenaphthylene	0.025	ND	ND	ND	ND
Acenaphthene	0.025	ND	ND	ND	ND
Fluorene	0.025	ND	ND	ND	ND
Phenanthrene	0.025	ND	0.83	ND	ND
Anthracene	0.025	ND	0.31	ND	ND
Fluoranthene	0.025	ND	4.18	ND	ND
Pyrene	0.025	ND	5.87	ND	ND
Benzo (a) anthracene	0.025	ND	2.67	ND	ND
Chrysene	0.025	ND	2.44	ND	ND
Benzo (b) fluoranthene	0.025	ND	4.37	ND	ND
Benzo (k) fluoranthene	0.025	ND	1.83	ND	ND
Benzo (a) pyrene	0.025	ND	2.65	ND	ND
Indeno(1,2,3-cd)pyrene	0.025	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.025	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.025	ND	0.51	ND	ND
Surrogate Recovery (%)		QC Limit 50-150			
Nitrobenzene-d5		78	82	69	82
2-Fluorobiphenyl		69	90	70	80
p-Terphenyl-d14		75	91	71	79

ND: Not Detected (Below RL x Dilution Factor).

*: High Dilution Factor Due To High Concentration of Hydrocarbons Other Than PAHs.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H035
Project :	Sunkist	Date Sampled:	8/24/2010
Project Site:	Sunkist, Ontario	Date Received:	8/24/2010
Matrix:	Soil	Date Extracted:	8/26/2010
Extraction Method:	3550B	Date Analyzed:	8/27/2010
Batch No.:	0827-SVOCS	Date Reported:	8/30/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		1	1	1	
Lab Sample I.D.		B10H035-5	B10H035-6	B10H035-7	
Client Sample I.D.		D-4-2	D-5-3	D-5-4	
Compound	RL				
Naphthalene	0.025	ND	ND	ND	
Acenaphthylene	0.025	ND	ND	ND	
Acenaphthene	0.025	ND	ND	ND	
Fluorene	0.025	ND	ND	ND	
Phenanthrene	0.025	ND	ND	ND	
Anthracene	0.025	ND	ND	ND	
Fluoranthene	0.025	ND	ND	ND	
Pyrene	0.025	ND	ND	ND	
Benzo (a) anthracene	0.025	ND	ND	ND	
Chrysene	0.025	ND	ND	ND	
Benzo (b) fluoranthene	0.025	ND	ND	ND	
Benzo (k) fluoranthene	0.025	ND	ND	ND	
Benzo (a) pyrene	0.025	ND	ND	ND	
Indeno(1,2,3-cd)pyrene	0.025	ND	ND	ND	
Dibenzo(a,h)anthracene	0.025	ND	ND	ND	
Benzo(g,h,i)perylene	0.025	ND	ND	ND	
Surrogate Recovery (%) QC Limit 50-150					
Nitrobenzene-d5		79	81	77	
2-Fluorobiphenyl		71	72	81	
p-Terphenyl-d14		80	78	85	

ND: Not Detected (Below RL x Dilution Factor).

*: High Dilution Factor Due To High Concentration of Hydrocarbons Other Than PAHs.

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H035
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/27/2010
Batch No.:	0827-SVOCS	Date Reported:	8/30/2010

MB/LCS/LCSD Report

Unit: mg/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.19	0.22	76	88	15	≤30	50-150
Acenaphthylene	ND	0.25	0.21	0.19	84	76	10	≤30	50-150
Acenaphthene	ND	0.25	0.17	0.19	68	76	11	≤30	50-150
Fluorene	ND	0.25	0.18	0.20	72	80	11	≤30	50-150
Phenanthrene	ND	0.25	0.19	0.21	76	84	10	≤30	50-150
Anthracene	ND	0.25	0.17	0.21	68	84	21	≤30	50-150
Fluoranthene	ND	0.25	0.20	0.19	80	76	5	≤30	50-150
Pyrene	ND	0.25	0.16	0.18	64	72	12	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.19	0.17	76	68	11	≤30	50-150
Chrysene	ND	0.25	0.23	0.21	92	84	9	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.18	0.20	72	80	11	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.17	0.18	68	72	6	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.20	0.18	80	72	11	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.17	0.19	68	76	11	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.18	0.21	72	84	15	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.19	0.22	76	88	15	≤30	50-150
Nitrobenzene-d5 %Rec.	80				78	69			50-150
2-Fluorobiphenyl %Rec.	85				80	75			50-150
p-Terphenyl-d14 %Rec.	81				82	73			50-150

ND: Not Detected (Below RL).



**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761
Tel: 562-413-8343
Tel/ Fax: 909-923-8628

Page 1 of 1
Lab Job Number B10H035

CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested					
Address 17011 Beach Blvd. H.B. Ca.		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal												<input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal					
Report Attention	Phone # Fax: # 877-232-4660	Sampled By Brian Bauer																	
Project No./ Name	Project Site Sunkst Ontario																		
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	8270C SIM PNAS	Remarks
		Date	Time																
F-4-1	B10H035-1	8/22/20	12:20pm				X					X	X		X		X	X	
D-5-1	↓ -2	8/24/20	12:45pm				X					X	X		X		X	X	
D-5-2	↓ -3	↑	12:45pm				X					X	X		X		X	X	
D-4-1	↓ -4	↑	1:15pm				X					X	X		X		X	X	
D-4-2	↓ -5	↑	1:15pm				X					X	X		X		X	X	
D-5-3	↓ -6	↑	1:30pm				X					X	X		X		X	X	
D-5-4	↓ -7	8/24/20	1:30pm				X					X	X		X		X	X	
Relinquished By Brian Bauer		Company BEC	Date 8/24/20	Time 2:18pm	Received By J. [Signature]		Company ABC Labs	Date 8/24/20	Time 2:18PM	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.									
Relinquished By		Company	Date	Time	Received By		Company	Date	Time										

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

8/30/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 8/25/2010
Lab Job No.: B10H039

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 8/25/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0826-VOCS

Lab Job No.: B10H039
 Date Sampled: 8/25/2010
 Date Received: 8/25/2010
 Date Analyzed: 8/26/2010
 Date Reported: 8/30/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		08/26/10	08/26/10		
Dilution Factor		1	1		
Lab Sample I.D.		B10H039-1	Method Blank		
Client Sample I.D.		D-5-5			
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	
Chloromethane	0.0018	0.005	ND	ND	
Vinyl Chloride	0.0018	0.005	ND	ND	
Bromomethane	0.0018	0.005	ND	ND	
Chloroethane	0.0018	0.005	ND	ND	
Trichlorofluoromethane	0.0018	0.005	ND	ND	
1,1-Dichloroethene	0.0018	0.005	ND	ND	
Carbon disulfide	0.0018	0.005	ND	ND	
Methylene chloride	0.0018	0.005	ND	ND	
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	
1,1-Dichloroethane	0.0018	0.005	ND	ND	
2,2-Dichloropropane	0.0018	0.005	ND	ND	
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	
Bromochloromethane	0.0018	0.005	ND	ND	
Chloroform	0.0018	0.005	ND	ND	
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	
Vinyl acetate	0.0018	0.005	ND	ND	
Carbontetrachloride	0.0018	0.005	ND	ND	
1,1-Dichloropropene	0.0018	0.005	ND	ND	
1,2-Dichloroethane	0.0018	0.005	ND	ND	
Benzene	0.001	0.002	ND	ND	
Trichloroethene	0.0018	0.005	ND	ND	
1,2-Dichloropropane	0.0018	0.005	ND	ND	
Methyl methacrylate	0.0018	0.005	ND	ND	
Dibromomethane	0.0018	0.005	ND	ND	
Bromodichloromethane	0.0018	0.005	ND	ND	
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Toluene	0.001	0.002	ND	ND	
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Ethylmethacrylate	0.0018	0.005	ND	ND	
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	
Dibromochloromethane	0.0018	0.005	ND	ND	
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	
Tetrachloroethene	0.0018	0.005	ND	ND	
1,3-Dichloropropane	0.0018	0.005	ND	ND	
Chlorobenzene	0.0018	0.005	ND	ND	

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0826-VOCS

Lab Job No.: B10H039
 Date Sampled: 8/25/2010
 Date Received: 8/25/2010
 Date Analyzed: 8/26/2010
 Date Reported: 8/30/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		08/26/10	08/26/10		
Dilution Factor		1	1		
Lab Sample I.D.		B10H039-1	Method Blank		
Client Sample I.D.		D-5-5			
Compound	MDL	RL			
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	
Total Xylene	0.002	0.004	ND	ND	
Styrene	0.0018	0.005	ND	ND	
Bromoform	0.0018	0.005	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	
Acetone	0.025	0.050	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	
MTBE	0.0018	0.005	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	
TAME	0.0018	0.005	ND	ND	
t-Butanol	0.010	0.020	ND	ND	
Ethanol	0.25	0.5	ND	ND	
Surrogate Recovery (%) QC Limit 70-130					
1,2-Dichloroethane-d4			85	85	
Toluene-d8			96	88	
4-Bromofluorobenzene			101	89	

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H039
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/26/2010
Batch No.:	0826-VOCS	Date Reported:	8/30/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.017	0.016	85	80	6	≤20	80-120
Benzene	ND	0.020	0.020	0.018	100	90	11	≤20	80-120
Trichloroethene	ND	0.020	0.019	0.017	95	85	11	≤20	80-120
Toluene	ND	0.020	0.023	0.022	115	110	4	≤20	80-120
Chlorobenzene	ND	0.020	0.023	0.021	115	105	9	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	85				102	98			70-130
Toluene-d8	88				94	102			70-130
4-Bromofluorobenzene	89				98	105			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H039
Project:	Sunkist	Date Sampled:	8/25/2010
Project Site:	Sunkist, Ontario	Date Received:	8/25/2010
Matrix:	Soil	Date Analyzed:	8/26/2010
Batch No.:	AH26-GS (TPH-G)	Date Analyzed:	8/26/2010
Batch No.:	BH26-DS (TPH-D)	Date Reported:	8/30/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%) For Gasoline	Surrogate(%) For Diesel
		C4-C12	C12-C24	C24-C40		
	RL	0.1	10	50		
D-5-5	B10H039-1	3.25	ND	ND	90	95

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline)

Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H039
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/26/2010
Batch No.:	AH26-GS	Date Reported:	8/30/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	1.05	0.98	105	98	7	≤20	80-120
Surrogate (%)	78				85	79			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10H039

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 8/26/2010

Batch No.: BH26-DS

Date Reported: 8/30/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	465	485	93	97	4	≤20	80-120
Surrogate (%)	89				91	89			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H039
Project:	Sunkist	Date Sampled:	8/25/2010
Project Site:	Sunkist, Ontario	Date Received:	8/25/2010
Matrix:	Soil	Date Extracted:	8/26/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/27/2010
Batch No.:	0827-PES-S	Date Reported:	8/30/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1		
LAB SAMPLE I.D.		B10H039-1	Method Blank		
CLIENT SAMPLE I.D.		D-5-5			
COMPOUND	RL				
α-BHC	5	ND	ND		
γ-BHC	5	ND	ND		
Heptachlor	5	ND	ND		
Aldrin	5	ND	ND		
β-BHC	5	ND	ND		
δ-BHC	5	ND	ND		
α-Chlordane	5	ND	ND		
γ-Chlordane	5	ND	ND		
Heptachlor Epoxide	5	ND	ND		
Endosulfan I	5	ND	ND		
4,4'-DDE	5	ND	ND		
Dieldrin	5	ND	ND		
Endrin	5	ND	ND		
Endosulfan II	5	ND	ND		
4,4'-DDD	5	ND	ND		
4,4'-DDT	5	ND	ND		
Endrin Aldehyde	5	ND	ND		
Endosulfan Sulfate	5	ND	ND		
Methoxychlor	20	ND	ND		
Endrin Ketone	10	ND	ND		
Technical Chlordane	25	ND	ND		
Toxaphene	100	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140			
2,4,5,6-Tetrachloro-m-xylene		85	89		
Decachlorobiphenyl		92	90		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0827-PES-S

Lab Job No.: B10H039
Lab Sample ID: LCS
Date Analyzed: 8/27/2010
Date Reported: 8/30/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	20.1	18.2	101	91	10	≤30	50-150
Heptachlor	ND	20	18.2	16.5	91	83	10	≤30	50-150
Aldrin	ND	20	17.3	18.1	87	91	5	≤30	50-140
Dieldrin	ND	40	35.6	36.7	89	92	3	≤30	70-130
Endrin	ND	40	33.4	35.2	84	88	5	≤30	70-150
4,4'-DDT	ND	40	36.1	37.3	90	93	3	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	89				103	112			65-140
DCP	90				105	125			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H039
Project:	Sunkist	Date Sampled:	8/25/2010
Project Site:	Sunkist, Ontario	Date Received:	8/25/2010
Matrix:	Soil	Date Extracted:	8/26/2010
Extraction Method:	EPA 3550B	Date Analyzed:	8/27/2010
Batch No.:	0827-PES-S	Date Reported:	8/30/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1			
LAB SAMPLE I.D.		B10H039-1	Method Blank			
CLIENT SAMPLE I.D.		D-5-5				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	ND	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		85	89			
Decachlorobiphenyl		92	90			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0827-PCBS

Lab Job No.: B10H039
Lab Sample ID: LCS
Date Analyzed: 8/27/2010
Date Reported: 8/30/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	430	475	86	95	10	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	89				102	121			65-140
DCP	90				110	130			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H039
Project:	Sunkist	Date Sampled:	8/25/2010
Project Site:	Sunkist, Ontario	Date Received:	8/25/2010
Matrix:	Soil	Date Digested:	8/25/2010
Digestion Method:	3050B	Date Analyzed:	8/26/2010
Batch No.:	0826-MTS	Date Reported:	8/30/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10H039-1			Report Limit
		D-5-5			
Antimony (Sb)	6010B	ND			10
Arsenic (As)	6010B	9.45			0.5
Barium (Ba)	6010B	66.8			5.0
Beryllium (Be)	6010B	ND			2.5
Cadmium (Cd)	6010B	ND			2.5
Chromium (Cr)	6010B	21.8			2.5
Cobalt (Co)	6010B	10.6			2.5
Copper (Cu)	6010B	18.8			2.5
Lead (Pb)	6010B	3.14			2.5
Mercury (Hg)	7471A	ND			0.1
Molybdenum (Mo)	6010B	ND			5.0
Nickel (Ni)	6010B	11.4			2.5
Selenium (Se)	6010B	ND			0.5
Silver (Ag)	6010B	ND			2.5
Thallium (Tl)	6010B	ND			2.5
Vanadium (V)	6010B	41.1			5.0
Zinc (Zn)	6010B	60.1			2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H039
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/26/2010
Batch No.:	0826-MTS	Date Reported:	8/30/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	25	22.2	23.1	89	92	4	≤20	80-120
Arsenic (As)	6010B	ND	25	23.1	21.2	92	85	9	≤20	80-120
Barium (Ba)	6010B	ND	25	20.5	22.7	82	91	10	≤20	80-120
Beryllium (Be)	6010B	ND	25	22.3	23.8	89	95	7	≤20	80-120
Cadmium (Cd)	6010B	ND	25	22.1	24.6	88	98	11	≤20	80-120
Chromium (Cr)	6010B	ND	25	21.2	21.5	85	86	1	≤20	80-120
Cobalt (Co)	6010B	ND	25	24.1	24.3	96	97	1	≤20	80-120
Copper (Cu)	6010B	ND	25	23.2	22.6	93	90	3	≤20	80-120
Lead (Pb)	6010B	ND	25	20.4	21.2	82	85	4	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.91	1.85	96	93	3	≤20	80-120
Molybdenum (Mo)	6010B	ND	25	22.5	23.2	90	93	3	≤20	80-120
Nickel (Ni)	6010B	ND	25	21.6	21.5	86	86	0	≤20	80-120
Selenium (Se)	6010B	ND	25	23.3	22.3	93	89	4	≤20	80-120
Silver (Ag)	6010B	ND	25	24.5	23.4	98	94	5	≤20	80-120
Thallium (Tl)	6010B	ND	25	25.1	22.6	100	90	10	≤20	80-120
Vanadium (V)	6010B	ND	25	23.5	24.1	94	96	3	≤20	80-120
Zinc (Zn)	6010B	ND	25	22.6	23.4	90	94	3	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H039
Project :	Sunkist	Date Sampled:	8/25/2010
Project Site:	Sunkist, Ontario	Date Received:	8/25/2010
Matrix:	Soil	Date Extracted:	8/26/2010
Extraction Method:	3550B	Date Analyzed:	8/27/2010
Batch No.:	0827-SVOCS	Date Reported:	8/30/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		1		
Lab Sample I.D.		B10H039-1		
Client Sample I.D.		D-5-5		
Compound	RL			
Naphthalene	0.025	ND		
Acenaphthylene	0.025	ND		
Acenaphthene	0.025	ND		
Fluorene	0.025	ND		
Phenanthrene	0.025	ND		
Anthracene	0.025	ND		
Fluoranthene	0.025	ND		
Pyrene	0.025	ND		
Benzo (a) anthracene	0.025	ND		
Chrysene	0.025	ND		
Benzo (b) fluoranthene	0.025	ND		
Benzo (k) fluoranthene	0.025	ND		
Benzo (a) pyrene	0.025	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND		
Dibenzo(a,h)anthracene	0.025	ND		
Benzo(g,h,i)perylene	0.025	ND		
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		81		
2-Fluorobiphenyl		80		
p-Terphenyl-d14		86		

ND: Not Detected (Below RL x Dilution Factor).

*: High Dilution Factor Due To High Concentration of Hydrocarbons Other Than PAHs.

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H039
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	8/27/2010
Batch No.:	0827-SVOCS	Date Reported:	8/30/2010

MB/LCS/LCSD Report

Unit: mg/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.19	0.22	76	88	15	≤30	50-150
Acenaphthylene	ND	0.25	0.21	0.19	84	76	10	≤30	50-150
Acenaphthene	ND	0.25	0.17	0.19	68	76	11	≤30	50-150
Fluorene	ND	0.25	0.18	0.20	72	80	11	≤30	50-150
Phenanthrene	ND	0.25	0.19	0.21	76	84	10	≤30	50-150
Anthracene	ND	0.25	0.17	0.21	68	84	21	≤30	50-150
Fluoranthene	ND	0.25	0.20	0.19	80	76	5	≤30	50-150
Pyrene	ND	0.25	0.16	0.18	64	72	12	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.19	0.17	76	68	11	≤30	50-150
Chrysene	ND	0.25	0.23	0.21	92	84	9	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.18	0.20	72	80	11	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.17	0.18	68	72	6	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.20	0.18	80	72	11	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.17	0.19	68	76	11	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.18	0.21	72	84	15	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.19	0.22	76	88	15	≤30	50-150
Nitrobenzene-d5 %Rec.	80				78	69			50-150
2-Fluorobiphenyl %Rec.	85				80	75			50-150
p-Terphenyl-d14 %Rec.	81				82	73			50-150

ND: Not Detected (Below RL).



**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761

Tel: 562-413-8343

Tel/ Fax: 909-923-8628

Page 1 of 1

Lab Job Number: B10H039

CHAIN OF CUSTODY

Client Name: <u>B.E.C.</u>			Sample Receipt Conditions:			Analyses Requested										Turn Around Time Requested			
Address: <u>17011 BEACH BLVD H.B. CA</u>			<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal													<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal			
Report Attention	Phone # Fax: # <u>877-232-4620</u>	Sampled By																	
Project No./ Name	Project Site																		
Project No./ Name	<u>SUKKIST ONTARIO</u>																		
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks	
		Date	Time																
<u>D-5-5</u>	<u>B10H039-1</u>	<u>8/25/10</u>	<u>2:45pm</u>	<u>SOIL</u>			X					X	X		X		X	X	<u>8270c SIM PNAS</u>

Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
<u>Michael Hernandez</u>	<u>BEC</u>	<u>8/25/10</u>	<u>3:30pm</u>	<u>[Signature]</u>	<u>ABC Labs</u>	<u>8/25/10</u>	<u>3:30PM</u>	

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product, Preservative Code, IC=Ice, HC=HCl, HN=HNO₃, SH=NaOH, ST=Na₂S₂O₃, HS=H₂SO₄, * Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST=Steel Tube, B= Brass Tube, P=Plastic Bottle, V=VOA Vial, E= EnCore

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

9/6/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 8/31/2010
Lab Job No.: B10H047

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 8/31/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0902-VOCS

Lab Job No.: B10H047
 Date Sampled: 8/31/2010
 Date Received: 8/31/2010
 Date Analyzed: 9/2/2010
 Date Reported: 9/6/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		09/02/10	09/02/10		
Dilution Factor		500*		1	
Lab Sample I.D.		B10H047-1	Method Blank		
Client Sample I.D.		D-5-6			
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	
Chloromethane	0.0018	0.005	ND	ND	
Vinyl Chloride	0.0018	0.005	ND	ND	
Bromomethane	0.0018	0.005	ND	ND	
Chloroethane	0.0018	0.005	ND	ND	
Trichlorofluoromethane	0.0018	0.005	ND	ND	
1,1-Dichloroethene	0.0018	0.005	ND	ND	
Carbon disulfide	0.0018	0.005	ND	ND	
Methylene chloride	0.0018	0.005	ND	ND	
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	
1,1-Dichloroethane	0.0018	0.005	ND	ND	
2,2-Dichloropropane	0.0018	0.005	ND	ND	
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	
Bromochloromethane	0.0018	0.005	ND	ND	
Chloroform	0.0018	0.005	ND	ND	
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	
Vinyl acetate	0.0018	0.005	ND	ND	
Carbontetrachloride	0.0018	0.005	ND	ND	
1,1-Dichloropropene	0.0018	0.005	ND	ND	
1,2-Dichloroethane	0.0018	0.005	ND	ND	
Benzene	0.001	0.002	ND	ND	
Trichloroethene	0.0018	0.005	ND	ND	
1,2-Dichloropropane	0.0018	0.005	ND	ND	
Methyl methacrylate	0.0018	0.005	ND	ND	
Dibromomethane	0.0018	0.005	ND	ND	
Bromodichloromethane	0.0018	0.005	ND	ND	
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Toluene	0.001	0.002	ND	ND	
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Ethylmethacrylate	0.0018	0.005	ND	ND	
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	
Dibromochloromethane	0.0018	0.005	ND	ND	
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	
Tetrachloroethene	0.0018	0.005	ND	ND	
1,3-Dichloropropane	0.0018	0.005	ND	ND	
Chlorobenzene	0.0018	0.005	ND	ND	

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x MDL); MDL= Method Detection Limit.

*: High Dilution Factor Due To High Concentration of Hydrocarbons Other Than 8260B Compounds.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0902-VOCS

Lab Job No.: B10H047
 Date Sampled: 8/31/2010
 Date Received: 8/31/2010
 Date Analyzed: 9/2/2010
 Date Reported: 9/6/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		09/02/10	09/02/10		
Dilution Factor		500*	1		
Lab Sample I.D.		B10H047-1	Method Blank		
Client Sample I.D.		D-5-6			
Compound	MDL	RL			
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	
Total Xylene	0.002	0.004	ND	ND	
Styrene	0.0018	0.005	ND	ND	
Bromoform	0.0018	0.005	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	
Acetone	0.025	0.050	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	
MTBE	0.0018	0.005	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	
TAME	0.0018	0.005	ND	ND	
t-Butanol	0.010	0.020	ND	ND	
Ethanol	0.25	0.5	ND	ND	
Surrogate Recovery (%) QC Limit 70-130					
1,2-Dichloroethane-d4			89	92	
Toluene-d8			95	95	
4-Bromofluorobenzene			102	103	

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

*: High Dilution Factor Due To High Concentration of Hydrocarbons Other Than 8260B Compounds.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H047
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	9/2/2010
Batch No.:	0902-VOCS	Date Reported:	9/6/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.016	0.017	80	85	6	≤20	80-120
Benzene	ND	0.020	0.017	0.019	85	95	11	≤20	80-120
Trichloroethene	ND	0.020	0.017	0.017	85	85	0	≤20	80-120
Toluene	ND	0.020	0.019	0.022	95	110	15	≤20	80-120
Chlorobenzene	ND	0.020	0.019	0.020	95	100	5	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	92				101	92			70-130
Toluene-d8	95				98	99			70-130
4-Bromofluorobenzene	103				103	97			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H047
Project:	Sunkist	Date Sampled:	8/31/2010
Project Site:	Sunkist, Ontario	Date Received:	8/31/2010
Matrix:	Soil	Date Analyzed:	9/2/2010
Batch No.:	AI02-GS (TPH-G)	Date Analyzed:	9/2/2010
Batch No.:	BI02-DS (TPH-D)	Date Reported:	9/6/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%)	Surrogate(%)
		C4-C12	C12-C24	C24-C40	For Gasoline	For Diesel
	RL	0.1	10	50		
D-5-6	B10H047-1	25	27.2	ND	95	98

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10H047

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 9/2/2010

Batch No.: AI02-GS (TPH-G)

Date Reported: 9/6/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	1.05	1.19	105	119	13	≤20	80-120
Surrogate (%)	92				89	90			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10H047

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 9/2/2010

Batch No.: BI02-DS (TPH-D)

Date Reported: 9/6/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	435	486	87	97	11	≤20	80-120
Surrogate (%)	90				84	89			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H047
Project:	Sunkist	Date Sampled:	8/31/2010
Project Site:	Sunkist, Ontario	Date Received:	8/31/2010
Matrix:	Soil	Date Extracted:	9/1/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/2/2010
Batch No.:	0902-PES-S	Date Reported:	9/6/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1			
LAB SAMPLE I.D.		B10H047-1	Method Blank			
CLIENT SAMPLE I.D.		D-5-6				
COMPOUND	RL					
α-BHC	5	ND	ND			
γ-BHC	5	ND	ND			
Heptachlor	5	ND	ND			
Aldrin	5	ND	ND			
β-BHC	5	ND	ND			
δ-BHC	5	ND	ND			
α-Chlordane	5	ND	ND			
γ-Chlordane	5	ND	ND			
Heptachlor Epoxide	5	ND	ND			
Endosulfan I	5	ND	ND			
4,4'-DDE	5	ND	ND			
Dieldrin	5	ND	ND			
Endrin	5	ND	ND			
Endosulfan II	5	ND	ND			
4,4'-DDD	5	ND	ND			
4,4'-DDT	5	ND	ND			
Endrin Aldehyde	5	ND	ND			
Endosulfan Sulfate	5	ND	ND			
Methoxychlor	20	ND	ND			
Endrin Ketone	10	ND	ND			
Technical Chlordane	25	ND	ND			
Toxaphene	100	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		78	95			
Decachlorobiphenyl		85	102			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0902-PES-S

Lab Job No.: B10H047
Lab Sample ID: LCS
Date Analyzed: 9/2/2010
Date Reported: 9/6/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	16.6	18.1	83	91	9	≤30	50-150
Heptachlor	ND	20	15.3	17.2	77	86	12	≤30	50-150
Aldrin	ND	20	13.3	16.5	67	83	21	≤30	50-140
Dieldrin	ND	40	36.1	35.5	90	89	2	≤30	70-130
Endrin	ND	40	35.1	33.2	88	83	6	≤30	70-150
4,4'-DDT	ND	40	46.1	38.5	115	96	18	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	95				91	85			65-140
DCP	102				89	95			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H047
Project:	Sunkist	Date Sampled:	8/31/2010
Project Site:	Sunkist, Ontario	Date Received:	8/31/2010
Matrix:	Soil	Date Extracted:	9/1/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/2/2010
Batch No.:	0902-PCB-S	Date Reported:	9/6/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1			
LAB SAMPLE I.D.		B10H047-1	Method Blank			
CLIENT SAMPLE I.D.		D-5-6				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	430	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%)		QC Limit: 65-140				
2,4,5,6-Tetrachloro-m-xylene		78	95			
Decachlorobiphenyl		85	102			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0902-PCB-S

Lab Job No.: B10H047
Lab Sample ID: LCS
Date Analyzed: 9/2/2010
Date Reported: 9/6/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	501	584	100	117	15	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	95				101	103			65-140
DCP	102				121	112			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H047
Project:	Sunkist	Date Sampled:	8/31/2010
Project Site:	Sunkist, Ontario	Date Received:	8/31/2010
Matrix:	Soil	Date Digested:	9/4/2010
Digestion Method:	3050B	Date Analyzed:	9/4/2010
Batch No.:	0904-MTS	Date Reported:	9/6/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10H047-1			Report Limit
		D-5-6			
Antimony (Sb)	6010B	ND			10
Arsenic (As)	6010B	6.06			0.5
Barium (Ba)	6010B	63.1			5.0
Beryllium (Be)	6010B	ND			2.5
Cadmium (Cd)	6010B	ND			2.5
Chromium (Cr)	6010B	27.8			2.5
Cobalt (Co)	6010B	6.47			2.5
Copper (Cu)	6010B	14.0			2.5
Lead (Pb)	6010B	2.8			2.5
Mercury (Hg)	7471A	ND			0.1
Molybdenum (Mo)	6010B	ND			5.0
Nickel (Ni)	6010B	8.4			2.5
Selenium (Se)	6010B	ND			0.5
Silver (Ag)	6010B	ND			2.5
Thallium (Tl)	6010B	ND			2.5
Vanadium (V)	6010B	31.5			5.0
Zinc (Zn)	6010B	34.7			2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H047
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	9/4/2010
Batch No.:	0904-MTS	Date Reported:	9/6/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	25	24.6	22.9	98	92	7	≤20	80-120
Arsenic (As)	6010B	ND	25	28.2	25.4	113	102	10	≤20	80-120
Barium (Ba)	6010B	ND	25	23.4	21.5	94	86	8	≤20	80-120
Beryllium (Be)	6010B	ND	25	23.7	21.1	95	84	12	≤20	80-120
Cadmium (Cd)	6010B	ND	25	23.5	20.6	94	82	13	≤20	80-120
Chromium (Cr)	6010B	ND	25	24.3	22.5	97	90	8	≤20	80-120
Cobalt (Co)	6010B	ND	25	24.5	22.5	98	90	9	≤20	80-120
Copper (Cu)	6010B	ND	25	21.0	23.5	84	94	11	≤20	80-120
Lead (Pb)	6010B	ND	25	22.1	22.2	88	89	0	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.98	2.01	99	101	2	≤20	80-120
Molybdenum (Mo)	6010B	ND	25	23.1	22.5	92	90	3	≤20	80-120
Nickel (Ni)	6010B	ND	25	23.1	22.5	92	90	3	≤20	80-120
Selenium (Se)	6010B	ND	25	22.1	22.5	88	90	2	≤20	80-120
Silver (Ag)	6010B	ND	25	23.2	22.5	93	90	3	≤20	80-120
Thallium (Tl)	6010B	ND	25	22.4	23.2	90	93	4	≤20	80-120
Vanadium (V)	6010B	ND	25	22.6	23.5	90	94	4	≤20	80-120
Zinc (Zn)	6010B	ND	25	23.2	22.5	93	90	3	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10H047
Project :	Sunkist	Date Sampled:	8/31/2010
Project Site:	Sunkist, Ontario	Date Received:	8/31/2010
Matrix:	Soil	Date Extracted:	9/1/2010
Extraction Method:	3550B	Date Analyzed:	9/2/2010
Batch No.:	0902-SVOCS	Date Reported:	9/6/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		1		
Lab Sample I.D.		B10H047-1		
Client Sample I.D.		D-5-6		
Compound	RL			
Naphthalene	0.025	ND		
Acenaphthylene	0.025	ND		
Acenaphthene	0.025	ND		
Fluorene	0.025	ND		
Phenanthrene	0.025	ND		
Anthracene	0.025	ND		
Fluoranthene	0.025	ND		
Pyrene	0.025	ND		
Benzo (a) anthracene	0.025	ND		
Chrysene	0.025	ND		
Benzo (b) fluoranthene	0.025	ND		
Benzo (k) fluoranthene	0.025	ND		
Benzo (a) pyrene	0.025	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND		
Dibenzo(a,h)anthracene	0.025	ND		
Benzo(g,h,i)perylene	0.025	ND		
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		78		
2-Fluorobiphenyl		69		
p-Terphenyl-d14		81		

ND: Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10H047
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	9/2/2010
Batch No.:	0902-SVOCS	Date Reported:	9/6/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.18	0.19	72	76	5	≤30	50-150
Acenaphthylene	ND	0.25	0.20	0.21	80	84	5	≤30	50-150
Acenaphthene	ND	0.25	0.16	0.18	64	72	12	≤30	50-150
Fluorene	ND	0.25	0.20	0.19	80	76	5	≤30	50-150
Phenanthrene	ND	0.25	0.21	0.19	84	76	10	≤30	50-150
Anthracene	ND	0.25	0.18	0.20	72	80	11	≤30	50-150
Fluoranthene	ND	0.25	0.19	0.18	76	72	5	≤30	50-150
Pyrene	ND	0.25	0.21	0.20	84	80	5	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.15	0.16	60	64	6	≤30	50-150
Chrysene	ND	0.25	0.16	0.18	64	72	12	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.19	0.18	76	72	5	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.17	0.19	68	76	11	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.16	0.17	64	68	6	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.18	0.20	72	80	11	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.19	0.19	76	76	0	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.20	0.18	80	72	11	≤30	50-150
Nitrobenzene-d5 %Rec.	85				78	81			50-150
2-Fluorobiphenyl %Rec.	84				85	89			50-150
p-Terphenyl-d14 %Rec.	90				86	92			50-150

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name <u>BEC</u>			Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested				
Address <u>17011 Beach Blvd. HB CA</u>			<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal												<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal				
Report Attention	Phone # <u>877 232 4620</u> Fax: #		Sampled By <u>MH</u>																
Project No./ Name	Project Site <u>JUNKIST ONTARIO</u>														Remarks				
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)		EPA8015M (Carbon Chain)	EPA8015M	CAM 17 Metals	<u>8270C SIMPNAS</u>
<u>D5-6</u>	<u>B10H047-1</u>	<u>08/31/10</u>	<u>0930</u>	<u>SOIL</u>	<u>ICE</u>		<u>X</u>					<u>X</u>	<u>X</u>		<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	
Relinquished By <u>MICHAEL HERNANDEZ</u>	Company <u>BEC</u>	Date <u>8/31/10</u>	Time <u>2:30PM</u>	Received By <u>[Signature]</u>	Company <u>ABC Labs</u>	Date <u>8/31/10</u>	Time <u>2:30PM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.											
Relinquished By	Company	Date	Time	Received By	Company	Date	Time												

Matrix Code: DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

9/7/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 9/2/2010
Lab Job No.: B10I005

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 9/2/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0904-VOCS

Lab Job No.: B10I005
 Date Sampled: 9/2/2010
 Date Received: 9/2/2010
 Date Analyzed: 9/4/2010
 Date Reported: 9/7/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		09/04/10	09/04/10		
Dilution Factor		500*		1	
Lab Sample I.D.		B10I005-3		Method Blank	
Client Sample I.D.		C-1-1			
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	
Chloromethane	0.0018	0.005	ND	ND	
Vinyl Chloride	0.0018	0.005	ND	ND	
Bromomethane	0.0018	0.005	ND	ND	
Chloroethane	0.0018	0.005	ND	ND	
Trichlorofluoromethane	0.0018	0.005	ND	ND	
1,1-Dichloroethene	0.0018	0.005	ND	ND	
Carbon disulfide	0.0018	0.005	ND	ND	
Methylene chloride	0.0018	0.005	ND	ND	
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	
1,1-Dichloroethane	0.0018	0.005	ND	ND	
2,2-Dichloropropane	0.0018	0.005	ND	ND	
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	
Bromochloromethane	0.0018	0.005	ND	ND	
Chloroform	0.0018	0.005	ND	ND	
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	
Vinyl acetate	0.0018	0.005	ND	ND	
Carbontetrachloride	0.0018	0.005	ND	ND	
1,1-Dichloropropene	0.0018	0.005	ND	ND	
1,2-Dichloroethane	0.0018	0.005	ND	ND	
Benzene	0.001	0.002	ND	ND	
Trichloroethene	0.0018	0.005	ND	ND	
1,2-Dichloropropane	0.0018	0.005	ND	ND	
Methyl methacrylate	0.0018	0.005	ND	ND	
Dibromomethane	0.0018	0.005	ND	ND	
Bromodichloromethane	0.0018	0.005	ND	ND	
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Toluene	0.001	0.002	ND	ND	
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Ethylmethacrylate	0.0018	0.005	ND	ND	
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	
Dibromochloromethane	0.0018	0.005	ND	ND	
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	
Tetrachloroethene	0.0018	0.005	ND	ND	
1,3-Dichloropropane	0.0018	0.005	ND	ND	
Chlorobenzene	0.0018	0.005	ND	ND	

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x MDL); MDL= Method Detection Limit.

*: High Dilution Factor Due To High Concentration of Hydrocarbons Other Than 8260B Compounds.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0904-VOCS

Lab Job No.: B10I005
 Date Sampled: 9/2/2010
 Date Received: 9/2/2010
 Date Analyzed: 9/4/2010
 Date Reported: 9/7/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		09/04/10	09/04/10		
Dilution Factor		500*	1		
Lab Sample I.D.		B10I005-3	Method Blank		
Client Sample I.D.		C-1-1			
Compound	MDL	RL			
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	
Total Xylene	0.002	0.004	ND	ND	
Styrene	0.0018	0.005	ND	ND	
Bromoform	0.0018	0.005	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	
Acetone	0.025	0.050	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	
MTBE	0.0018	0.005	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	
TAME	0.0018	0.005	ND	ND	
t-Butanol	0.010	0.020	ND	ND	
Ethanol	0.25	0.5	ND	ND	
Surrogate Recovery (%) QC Limit 70-130					
1,2-Dichloroethane-d4			102	89	
Toluene-d8			94	85	
4-Bromofluorobenzene			105	96	

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

*: High Dilution Factor Due To High Concentration of Hydrocarbons Other Than 8260B Compounds.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10I005
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	9/4/2010
Batch No.:	0904-VOCS	Date Reported:	9/7/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.017	0.018	85	90	6	≤20	80-120
Benzene	ND	0.020	0.016	0.018	80	90	12	≤20	80-120
Trichloroethene	ND	0.020	0.018	0.017	90	85	6	≤20	80-120
Toluene	ND	0.020	0.019	0.022	95	110	15	≤20	80-120
Chlorobenzene	ND	0.020	0.018	0.020	90	100	11	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	89				92	85			70-130
Toluene-d8	85				95	91			70-130
4-Bromofluorobenzene	96				110	96			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I005
Project:	Sunkist	Date Sampled:	9/2/2010
Project Site:	Sunkist, Ontario	Date Received:	9/2/2010
Matrix:	Soil	Date Analyzed:	9/2/2010
Batch No.:	AI02-GS (TPH-G)	Date Analyzed:	9/4/2010
Batch No.:	BI04-DS (TPH-D)	Date Reported:	9/7/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%) For Gasoline	Surrogate(%) For Diesel
		C4-C12	C12-C24	C24-C40		
	RL	0.1	10	50		
C-1-1	B10I005-3	443	44.5	ND	91	89

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline)

Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10I005
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	9/2/2010
Batch No.:	AI02-GS (TPH-G)	Date Reported:	9/7/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method	Spike	LCS	LCSD	LCS	LCSD	%RPD	%RPD	%Rec
	Blank	Conc.			%Rec.	%rec.		Accept	Accept
								Limit	Limit
TPH-G	ND	1.00	0.98	1.02	98	102	4	≤20	80-120
Surrogate (%)	90				87	81			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: BI04-DS (TPH-D)

Lab Job No.: B10I005
Lab Sample ID: LCS
Date Analyzed: 9/4/2010
Date Reported: 9/7/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	451	465	90	93	3	≤20	80-120
Surrogate (%)	85				89	91			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I005
Project:	Sunkist	Date Sampled:	9/2/2010
Project Site:	Sunkist, Ontario	Date Received:	9/2/2010
Matrix:	Soil	Date Extracted:	9/4/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/4/2010
Batch No.:	0904-PES-S	Date Reported:	9/7/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1			
LAB SAMPLE I.D.		B10I005-3	Method Blank			
CLIENT SAMPLE I.D.		C-1-1				
COMPOUND	RL					
α-BHC	5	ND	ND			
γ-BHC	5	ND	ND			
Heptachlor	5	ND	ND			
Aldrin	5	ND	ND			
β-BHC	5	ND	ND			
δ-BHC	5	ND	ND			
α-Chlordane	5	ND	ND			
γ-Chlordane	5	ND	ND			
Heptachlor Epoxide	5	ND	ND			
Endosulfan I	5	ND	ND			
4,4'-DDE	5	ND	ND			
Dieldrin	5	ND	ND			
Endrin	5	ND	ND			
Endosulfan II	5	ND	ND			
4,4'-DDD	5	ND	ND			
4,4'-DDT	5	ND	ND			
Endrin Aldehyde	5	ND	ND			
Endosulfan Sulfate	5	ND	ND			
Methoxychlor	20	ND	ND			
Endrin Ketone	10	ND	ND			
Technical Chlordane	25	ND	ND			
Toxaphene	100	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		85	85			
Decachlorobiphenyl		96	91			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0904-PES-S

Lab Job No.: B10I005
Lab Sample ID: LCS
Date Analyzed: 9/4/2010
Date Reported: 9/7/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	16.6	18.1	83	91	9	≤30	50-150
Heptachlor	ND	20	15.3	17.2	77	86	12	≤30	50-150
Aldrin	ND	20	13.3	16.5	67	83	21	≤30	50-140
Dieldrin	ND	40	36.1	35.5	90	89	2	≤30	70-130
Endrin	ND	40	35.1	33.2	88	83	6	≤30	70-150
4,4'-DDT	ND	40	46.1	38.5	115	96	18	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	85				120	105			65-140
DCP	91				112	115			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I005
Project:	Sunkist	Date Sampled:	9/2/2010
Project Site:	Sunkist, Ontario	Date Received:	9/2/2010
Matrix:	Soil	Date Extracted:	9/4/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/4/2010
Batch No.:	0904-PCB-S	Date Reported:	9/7/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1		
LAB SAMPLE I.D.		B10I005-1&2	B10I005-3	Method Blank		
CLIENT SAMPLE I.D.		L-64-1&2	C-1-1			
COMPOUND	RL					
PCB-1016	25	ND	ND	ND		
PCB-1221	50	ND	ND	ND		
PCB-1232	25	ND	ND	ND		
PCB-1242	25	ND	ND	ND		
PCB-1248	25	ND	ND	ND		
PCB-1254	25	540	59.9	ND		
PCB-1260	25	ND	ND	ND		
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		85	95	85		
Decachlorobiphenyl		96	102	91		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0904-PCB-S

Lab Job No.: B10I005
Lab Sample ID: LCS
Date Analyzed: 9/4/2010
Date Reported: 9/7/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	454	501	91	100	10	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	85				99	102			65-140
DCP	91				105	108			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I005
Project:	Sunkist	Date Sampled:	9/2/2010
Project Site:	Sunkist, Ontario	Date Received:	9/2/2010
Matrix:	Soil	Date Digested:	9/4/2010
Digestion Method:	3050B	Date Analyzed:	9/4/2010
Batch No.:	0904-MTS	Date Reported:	9/7/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10I005-3				Report Limit
		C-1-1				
Antimony (Sb)	6010B	ND				10
Arsenic (As)	6010B	7.44				0.5
Barium (Ba)	6010B	32.3				5.0
Beryllium (Be)	6010B	ND				2.5
Cadmium (Cd)	6010B	ND				2.5
Chromium (Cr)	6010B	19.9				2.5
Cobalt (Co)	6010B	8.01				2.5
Copper (Cu)	6010B	13.7				2.5
Lead (Pb)	6010B	2.56				2.5
Mercury (Hg)	7471A	ND				0.1
Molybdenum (Mo)	6010B	ND				5.0
Nickel (Ni)	6010B	8.39				2.5
Selenium (Se)	6010B	ND				0.5
Silver (Ag)	6010B	ND				2.5
Thallium (Tl)	6010B	ND				2.5
Vanadium (V)	6010B	30.3				5.0
Zinc (Zn)	6010B	33.2				2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10I005
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	9/4/2010
Batch No.:	0904-MTS	Date Reported:	9/7/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	25	24.6	22.9	98	92	7	≤20	80-120
Arsenic (As)	6010B	ND	25	28.2	25.4	113	102	10	≤20	80-120
Barium (Ba)	6010B	ND	25	23.4	21.5	94	86	8	≤20	80-120
Beryllium (Be)	6010B	ND	25	23.7	21.1	95	84	12	≤20	80-120
Cadmium (Cd)	6010B	ND	25	23.5	20.6	94	82	13	≤20	80-120
Chromium (Cr)	6010B	ND	25	24.3	22.5	97	90	8	≤20	80-120
Cobalt (Co)	6010B	ND	25	24.5	22.5	98	90	9	≤20	80-120
Copper (Cu)	6010B	ND	25	21.0	23.5	84	94	11	≤20	80-120
Lead (Pb)	6010B	ND	25	22.1	22.2	88	89	0	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.98	2.01	99	101	2	≤20	80-120
Molybdenum (Mo)	6010B	ND	25	23.1	22.5	92	90	3	≤20	80-120
Nickel (Ni)	6010B	ND	25	23.1	22.5	92	90	3	≤20	80-120
Selenium (Se)	6010B	ND	25	22.1	22.5	88	90	2	≤20	80-120
Silver (Ag)	6010B	ND	25	23.2	22.5	93	90	3	≤20	80-120
Thallium (Tl)	6010B	ND	25	22.4	23.2	90	93	4	≤20	80-120
Vanadium (V)	6010B	ND	25	22.6	23.5	90	94	4	≤20	80-120
Zinc (Zn)	6010B	ND	25	23.2	22.5	93	90	3	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I005
Project :	Sunkist	Date Sampled:	9/2/2010
Project Site:	Sunkist, Ontario	Date Received:	9/2/2010
Matrix:	Soil	Date Extracted:	9/4/2010
Extraction Method:	3550B	Date Analyzed:	9/5/2010
Batch No.:	0905-SVOCS	Date Reported:	9/7/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		20*		
Lab Sample I.D.		B10I005-3		
Client Sample I.D.		C-1-1		
Compound	RL			
Naphthalene	0.025	ND		
Acenaphthylene	0.025	ND		
Acenaphthene	0.025	ND		
Fluorene	0.025	ND		
Phenanthrene	0.025	ND		
Anthracene	0.025	ND		
Fluoranthene	0.025	ND		
Pyrene	0.025	ND		
Benzo (a) anthracene	0.025	ND		
Chrysene	0.025	ND		
Benzo (b) fluoranthene	0.025	ND		
Benzo (k) fluoranthene	0.025	ND		
Benzo (a) pyrene	0.025	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND		
Dibenzo(a,h)anthracene	0.025	ND		
Benzo(g,h,i)perylene	0.025	ND		
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		84		
2-Fluorobiphenyl		86		
p-Terphenyl-d14		91		

ND: Not Detected (Below RL x Dilution Factor).

*: High Dilution Factor Due To High Concentration of Hydrocarbons Other Than PAHs.

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10I005
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	9/5/2010
Batch No.:	0905-SVOCS	Date Reported:	9/7/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.18	0.19	72	76	5	≤30	50-150
Acenaphthylene	ND	0.25	0.20	0.21	80	84	5	≤30	50-150
Acenaphthene	ND	0.25	0.16	0.18	64	72	12	≤30	50-150
Fluorene	ND	0.25	0.20	0.19	80	76	5	≤30	50-150
Phenanthrene	ND	0.25	0.21	0.19	84	76	10	≤30	50-150
Anthracene	ND	0.25	0.18	0.20	72	80	11	≤30	50-150
Fluoranthene	ND	0.25	0.19	0.18	76	72	5	≤30	50-150
Pyrene	ND	0.25	0.21	0.20	84	80	5	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.15	0.16	60	64	6	≤30	50-150
Chrysene	ND	0.25	0.16	0.18	64	72	12	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.19	0.18	76	72	5	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.17	0.19	68	76	11	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.16	0.17	64	68	6	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.18	0.20	72	80	11	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.19	0.19	76	76	0	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.20	0.18	80	72	11	≤30	50-150
Nitrobenzene-d5 %Rec.	91				81	90			50-150
2-Fluorobiphenyl %Rec.	85				79	85			50-150
p-Terphenyl-d14 %Rec.	88				81	86			50-150

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested												
Address <u>17011 BEACH BWD HB CA</u>		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B(BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td><u>8270c SIM PAAS</u></td> </tr> </table>										EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<u>8270c SIM PAAS</u>	<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal
EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)													EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<u>8270c SIM PAAS</u>			
Report Attention	Phone # Fax: # <u>877-232-4620</u>	Sampled By <u>MH</u>																								
Project No./ Name	Project Site <u>JUNKIST ONTARIO</u>																									
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks								
<u>L-64-1</u>	<u>B101005-1</u>	<u>9/2/10</u>	<u>0858</u>	<u>SOIL</u>			X					X	X		X		X	X	<u>Call bret B.</u>							
<u>L-64-2</u>	<u>↓ -2</u>	<u>9/2/10</u>	<u>0850</u>	<u>SOIL</u>			X					X	X		X		X	X	<u>e 7148787191</u>							
<u>C-1-1</u>	<u>↓ -3</u>	<u>9/2/10</u>	<u>1325</u>	<u>SOIL</u>			X					X	X		X		X	X	<u>FOR</u>							
<p><u>Mr. Brett called on 9/3/2010 for the following instructions</u></p> <p><u>① composite L-64-1 and L-64-2 for PCBs only</u></p> <p><u>② C-1-1 will be analyzed as marked.</u></p> <p><u>JJ. 9/3/2010</u></p>																										
<p><u>DIRECTION FOR SAMPLES</u></p>																										
Relinquished By <u>Michael Hernandez</u>		Company <u>Bea</u>	Date <u>9/2/10</u>	Time <u>2:30pm</u>	Received By <u>[Signature]</u>	Company <u>ABC</u>	Date <u>9/2/10</u>	Time <u>2:30pm</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.																	
Relinquished By		Company	Date	Time	Received By	Company	Date	Time																		

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

9/7/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 9/3/2010
Lab Job No.: B10I007

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 9/3/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0904-VOCS

Lab Job No.: B10I007
 Date Sampled: 9/3/2010
 Date Received: 9/3/2010
 Date Analyzed: 9/4/2010
 Date Reported: 9/7/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			09/04/10	09/04/10	09/04/10	09/04/10
Dilution Factor			1	1	1	1
Lab Sample I.D.			B10I007-1	B10I007-2	B10I007-12	B10I007-18
Client Sample I.D.			SPC-A-1	SPC-A-2	SPC-B-1	SPC-C-1
Compound	MDL	RL				
Dichlorodifluoromethane	0.0018	0.005	ND	ND	ND	ND
Chloromethane	0.0018	0.005	ND	ND	ND	ND
Vinyl Chloride	0.0018	0.005	ND	ND	ND	ND
Bromomethane	0.0018	0.005	ND	ND	ND	ND
Chloroethane	0.0018	0.005	ND	ND	ND	ND
Trichlorofluoromethane	0.0018	0.005	ND	ND	ND	ND
1,1-Dichloroethene	0.0018	0.005	ND	ND	ND	ND
Carbon disulfide	0.0018	0.005	ND	ND	ND	ND
Methylene chloride	0.0018	0.005	ND	ND	ND	ND
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	ND	ND
1,1-Dichloroethane	0.0018	0.005	ND	ND	ND	ND
2,2-Dichloropropane	0.0018	0.005	ND	ND	ND	ND
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	ND	ND
Bromochloromethane	0.0018	0.005	ND	ND	ND	ND
Chloroform	0.0018	0.005	ND	ND	ND	ND
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	ND	ND
Vinyl acetate	0.0018	0.005	ND	ND	ND	ND
Carbontetrachloride	0.0018	0.005	ND	ND	ND	ND
1,1-Dichloropropene	0.0018	0.005	ND	ND	ND	ND
1,2-Dichloroethane	0.0018	0.005	ND	ND	ND	ND
Benzene	0.001	0.002	ND	ND	ND	ND
Trichloroethene	0.0018	0.005	ND	ND	ND	ND
1,2-Dichloropropane	0.0018	0.005	ND	ND	ND	ND
Methyl methacrylate	0.0018	0.005	ND	ND	ND	ND
Dibromomethane	0.0018	0.005	ND	ND	ND	ND
Bromodichloromethane	0.0018	0.005	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	ND	ND
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	ND	ND
Toluene	0.001	0.002	ND	ND	ND	ND
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	ND	ND
Ethylmethacrylate	0.0018	0.005	ND	ND	ND	ND
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	ND	ND
Dibromochloromethane	0.0018	0.005	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	ND	ND
Tetrachloroethene	0.0018	0.005	ND	ND	ND	ND
1,3-Dichloropropane	0.0018	0.005	ND	ND	ND	ND
Chlorobenzene	0.0018	0.005	ND	ND	ND	ND

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0904-VOCS

Lab Job No.: B10I007
 Date Sampled: 9/3/2010
 Date Received: 9/3/2010
 Date Analyzed: 9/4/2010
 Date Reported: 9/7/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			09/04/10	09/04/10	09/04/10	09/04/10
Dilution Factor			1	1	1	1
Lab Sample I.D.			B10I007-1	B10I007-2	B10I007-12	B10I007-18
Client Sample I.D.			SPC-A-1	SPC-A-2	SPC-B-1	SPC-C-1
Compound	MDL	RL				
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	ND	ND
Ethylbenzene	0.001	0.002	ND	ND	ND	ND
Total Xylene	0.002	0.004	ND	ND	ND	ND
Styrene	0.0018	0.005	ND	ND	ND	ND
Bromoform	0.0018	0.005	ND	ND	ND	ND
Isopropyl benzene	0.0018	0.005	ND	ND	ND	ND
Bromobenzene	0.0018	0.005	ND	ND	ND	ND
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	ND	ND
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	ND	ND
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	ND	ND
2-Chlorotoluene	0.0018	0.005	ND	ND	ND	ND
n-Propyl benzene	0.0018	0.005	ND	ND	ND	ND
4-Chlorotoluene	0.0018	0.005	ND	ND	ND	ND
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	ND	ND
tert-Butylbenzene	0.0018	0.005	ND	ND	ND	ND
p-Isopropyl toluene	0.0018	0.005	ND	ND	ND	ND
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	ND	ND
sec-Butylbenzene	0.0018	0.005	ND	ND	ND	ND
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	ND	ND
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	ND	ND
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	ND	ND
n-Butylbenzene	0.0018	0.005	ND	ND	ND	ND
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	ND	ND
Hexachlorobutadiene	0.0018	0.005	ND	ND	ND	ND
Naphthalene	0.0018	0.005	ND	ND	ND	ND
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	ND	ND
Acetone	0.025	0.050	ND	ND	ND	ND
2-Butanone(MEK)	0.01	0.025	ND	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	ND	ND
MTBE	0.0018	0.005	ND	ND	ND	ND
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	ND	ND
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	ND	ND
TAME	0.0018	0.005	ND	ND	ND	ND
t-Butanol	0.010	0.020	ND	ND	ND	ND
Ethanol	0.25	0.5	ND	ND	ND	ND
Surrogate Recovery (%) QC Limit 70-130						
1,2-Dichloroethane-d4			85	82	90	87
Toluene-d8			91	89	96	89
4-Bromofluorobenzene			93	92	101	85

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I007
Project :	Sunkist	Date Sampled:	9/3/2010
Project Site:	Sunkist, Ontario	Date Received:	9/3/2010
Matrix:	Soil	Date Analyzed:	9/4/2010
Batch No.:	0904-VOCS	Date Reported:	9/7/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			09/04/10	09/04/10		
Dilution Factor			1	1		
Lab Sample I.D.			B10I007-24	Method Blank		
Client Sample I.D.			SPC-CC-1			
Compound	MDL	RL				
Dichlorodifluoromethane	0.0018	0.005	ND	ND		
Chloromethane	0.0018	0.005	ND	ND		
Vinyl Chloride	0.0018	0.005	ND	ND		
Bromomethane	0.0018	0.005	ND	ND		
Chloroethane	0.0018	0.005	ND	ND		
Trichlorofluoromethane	0.0018	0.005	ND	ND		
1,1-Dichloroethene	0.0018	0.005	ND	ND		
Carbon disulfide	0.0018	0.005	ND	ND		
Methylene chloride	0.0018	0.005	ND	ND		
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND		
1,1-Dichloroethane	0.0018	0.005	ND	ND		
2,2-Dichloropropane	0.0018	0.005	ND	ND		
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND		
Bromochloromethane	0.0018	0.005	ND	ND		
Chloroform	0.0018	0.005	ND	ND		
1,1,1-Trichloroethane	0.0018	0.005	ND	ND		
Vinyl acetate	0.0018	0.005	ND	ND		
Carbontetrachloride	0.0018	0.005	ND	ND		
1,1-Dichloropropene	0.0018	0.005	ND	ND		
1,2-Dichloroethane	0.0018	0.005	ND	ND		
Benzene	0.001	0.002	ND	ND		
Trichloroethene	0.0018	0.005	ND	ND		
1,2-Dichloropropane	0.0018	0.005	ND	ND		
Methyl methacrylate	0.0018	0.005	ND	ND		
Dibromomethane	0.0018	0.005	ND	ND		
Bromodichloromethane	0.0018	0.005	ND	ND		
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND		
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND		
Toluene	0.001	0.002	ND	ND		
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND		
Ethylmethacrylate	0.0018	0.005	ND	ND		
1,1,2-Trichloroethane	0.0018	0.005	ND	ND		
Dibromochloromethane	0.0018	0.005	ND	ND		
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND		
Tetrachloroethene	0.0018	0.005	ND	ND		
1,3-Dichloropropane	0.0018	0.005	ND	ND		
Chlorobenzene	0.0018	0.005	ND	ND		

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I007
Project :	Sunkist	Date Sampled:	9/3/2010
Project Site:	Sunkist, Ontario	Date Received:	9/3/2010
Matrix:	Soil	Date Analyzed:	9/4/2010
Batch No.:	0904-VOCS	Date Reported:	9/7/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			09/04/10	09/04/10		
Dilution Factor			1	1		
Lab Sample I.D.			B10I007-24	Method Blank		
Client Sample I.D.			SPC-CC-1			
Compound	MDL	RL				
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND		
Ethylbenzene	0.001	0.002	ND	ND		
Total Xylene	0.002	0.004	ND	ND		
Styrene	0.0018	0.005	ND	ND		
Bromoform	0.0018	0.005	ND	ND		
Isopropyl benzene	0.0018	0.005	ND	ND		
Bromobenzene	0.0018	0.005	ND	ND		
1,2,3-Trichloropropane	0.0018	0.005	ND	ND		
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND		
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND		
2-Chlorotoluene	0.0018	0.005	ND	ND		
n-Propyl benzene	0.0018	0.005	ND	ND		
4-Chlorotoluene	0.0018	0.005	ND	ND		
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND		
tert-Butylbenzene	0.0018	0.005	ND	ND		
p-Isopropyl toluene	0.0018	0.005	ND	ND		
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND		
sec-Butylbenzene	0.0018	0.005	ND	ND		
1,3-Dichlorobenzene	0.0018	0.005	ND	ND		
1,4-Dichlorobenzene	0.0018	0.005	ND	ND		
1,2-Dichlorobenzene	0.0018	0.005	ND	ND		
n-Butylbenzene	0.0018	0.005	ND	ND		
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND		
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND		
Hexachlorobutadiene	0.0018	0.005	ND	ND		
Naphthalene	0.0018	0.005	ND	ND		
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND		
Acetone	0.025	0.050	ND	ND		
2-Butanone(MEK)	0.01	0.025	ND	ND		
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND		
MTBE	0.0018	0.005	ND	ND		
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND		
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND		
TAME	0.0018	0.005	ND	ND		
t-Butanol	0.010	0.020	ND	ND		
Ethanol	0.25	0.5	ND	ND		
Surrogate Recovery (%) QC Limit 70-130						
1,2-Dichloroethane-d4			92	89		
Toluene-d8			96	85		
4-Bromofluorobenzene			94	96		

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10I007
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	9/4/2010
Batch No.:	0904-VOCS	Date Reported:	9/7/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method	Spike	LCS	LCSD	LCS	LCSD	%RPD	%RPD	%Rec.
	Blank	Conc.			%Rec.	%Rec.		Accept Limit	Accept Limit
1,1-Dichloroethene	ND	0.020	0.017	0.018	85	90	6	≤20	80-120
Benzene	ND	0.020	0.016	0.018	80	90	12	≤20	80-120
Trichloroethene	ND	0.020	0.018	0.017	90	85	6	≤20	80-120
Toluene	ND	0.020	0.019	0.022	95	110	15	≤20	80-120
Chlorobenzene	ND	0.020	0.018	0.020	90	100	11	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	89				92	85			70-130
Toluene-d8	85				95	91			70-130
4-Bromofluorobenzene	96				110	96			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I007
Project:	Sunkist	Date Sampled:	9/3/2010
Project Site:	Sunkist, Ontario	Date Received:	9/3/2010
Matrix:	Soil	Date Analyzed:	9/4/2010
Batch No.:	AI04-GS (TPH-G)	Date Analyzed:	9/5/2010
Batch No.:	BI05-DS (TPH-D)	Date Reported:	9/7/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%)	Surrogate(%)
		C4-C12	C12-C24	C24-C40	For Gasoline	For Diesel
	RL	0.1	10	50		
SPC-A-1	B10I007-1	ND	14.8	ND	84	89
SPC-A-2	B10I007-2	ND	ND	ND	91	84
SPC-A-3	B10I007-3	ND	ND	ND	96	90
SPC-A-4	B10I007-4	ND	ND	ND	102	86
SPCA-5	B10I007-5	ND	ND	ND	121	78
SPC-A-6	B10I007-6	ND	13.9	ND	92	76
SPC-A-7	B10I007-7	ND	ND	ND	89	84
SPC-A-8	B10I007-8	ND	ND	ND	87	90
SPC-A-9	B10I007-9	ND	ND	ND	76	87
SPC-A-10	B10I007-10	ND	ND	ND	85	93
SPC-A-11	B10I007-11	ND	10.4	ND	84	89
SPC-B-1	B10I007-12	ND	ND	ND	89	82
SPC-B-2	B10I007-13	ND	ND	ND	90	81
SPC-B-3	B10I007-14	ND	ND	ND	87	80
SPC-B-4	B10I007-15	ND	16.3	ND	88	93
SPC-B-5	B10I007-16	ND	13.4	ND	91	89
SPC-B-6	B10I007-17	ND	ND	ND	94	91
SPC-C-1	B10I007-18	ND	18.6	ND	86	95
SPC-C-2	B10I007-19	ND	ND	ND	96	87
SPC-C-3	B10I007-20	ND	ND	ND	94	86
SPC-C-4	B10I007-21	ND	ND	ND	92	93
SPC-C-5	B10I007-22	ND	ND	ND	85	87
SPC-C-6	B10I007-23	ND	ND	ND	79	88
SPC-CC-1	B10I007-24	ND	14.4	ND	80	79

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline)

Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: AI04-GS (TPH-G)

Lab Job No.: B10I007
Lab Sample ID: B10I007-23
Date Analyzed: 9/4/2010
Date Reported: 9/7/2010

I. MB/LCS Report

Unit: mg/kg (PPM)

Analyte	Method	Report	True	Rec.%	Accept
	Blank	Value	Value		Limit
TPH-G	ND	1.11	1.0	111	80-120
Surrogate (%)	86			85	70-130

II. MS/MSD Report

Unit: mg/kg (PPM)

Analyte	Sample	Spike	MS	MSD	MS	MSD	%RPD	%RPD	%Rec
	Conc.	Conc.			%Rec.	%rec.		Accept	Accept
								Limit	Limit
TPH-G	ND	1.0	1.26	1.1	126	112	12	≤30	70-130
Surrogate (%)	79				112	123			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10I007

Project: Sunkist

Lab Sample ID: B10I007-20

Matrix: Soil

Date Analyzed: 9/5/2010

Batch No.: BI05-DS (TPH-D)

Date Reported: 9/7/2010

I. MB/LCS Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Report Value	True Value	Rec.%	Accept Limit
TPH-D	ND	436	500	87	80-120
Surrogate (%)	95			98	70-130

*: Motor Oil in Method Blank was ND.

II. MS/MSD Report

Unit: mg/kg (PPM)

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	451	405	90	81	11	≤30	70-130
Surrogate (%)	86				94	93			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I007
Project:	Sunkist	Date Sampled:	9/3/2010
Project Site:	Sunkist, Ontario	Date Received:	9/3/2010
Matrix:	Soil	Date Extracted:	9/4/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/4/2010
Batch No.:	0904-PES-S	Date Reported:	9/7/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B10I007-1	B10I007-2	B10I007-12	B10I007-18	B10I007-24
CLIENT SAMPLE I.D.		SPC-A-1	SPC-A-2	SPC-B-1	SPC-C-1	SPC-CC-1
COMPOUND	RL					
α-BHC	5	ND	ND	ND	ND	ND
γ-BHC	5	ND	ND	ND	ND	ND
Heptachlor	5	ND	ND	ND	ND	ND
Aldrin	5	ND	ND	ND	ND	ND
β-BHC	5	ND	ND	ND	ND	ND
δ-BHC	5	ND	ND	ND	ND	ND
α-Chlordane	5	ND	ND	ND	ND	ND
γ-Chlordane	5	ND	ND	ND	ND	ND
Heptachlor Epoxide	5	ND	ND	ND	ND	ND
Endosulfan I	5	ND	ND	ND	ND	ND
4,4'-DDE	5	ND	ND	ND	ND	ND
Dieldrin	5	ND	ND	ND	ND	ND
Endrin	5	ND	ND	ND	ND	ND
Endosulfan II	5	ND	ND	ND	ND	ND
4,4'-DDD	5	ND	ND	ND	ND	ND
4,4'-DDT	5	ND	ND	ND	ND	ND
Endrin Aldehyde	5	ND	ND	ND	ND	ND
Endosulfan Sulfate	5	ND	ND	ND	ND	ND
Methoxychlor	20	ND	ND	ND	ND	ND
Endrin Ketone	10	ND	ND	ND	ND	ND
Technical Chlordane	25	ND	ND	ND	ND	ND
Toxaphene	100	ND	ND	ND	ND	ND
Surrogate Recovery (%)		QC Limit: 65-140				
2,4,5,6-Tetrachloro-m-xylene		102	90	98	89	87
Decachlorobiphenyl		113	89	102	95	90

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I007
Project:	Sunkist	Date Sampled:	9/3/2010
Project Site:	Sunkist, Ontario	Date Received:	9/3/2010
Matrix:	Soil	Date Extracted:	9/4/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/4/2010
Batch No.:	0904-PES-S	Date Reported:	9/7/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1			
LAB SAMPLE I.D.		Method Blank			
CLIENT SAMPLE I.D.					
COMPOUND	RL				
α-BHC	5	ND			
γ-BHC	5	ND			
Heptachlor	5	ND			
Aldrin	5	ND			
β-BHC	5	ND			
δ-BHC	5	ND			
α-Chlordane	5	ND			
γ-Chlordane	5	ND			
Heptachlor Epoxide	5	ND			
Endosulfan I	5	ND			
4,4'-DDE	5	ND			
Dieldrin	5	ND			
Endrin	5	ND			
Endosulfan II	5	ND			
4,4'-DDD	5	ND			
4,4'-DDT	5	ND			
Endrin Aldehyde	5	ND			
Endosulfan Sulfate	5	ND			
Methoxychlor	20	ND			
Endrin Ketone	10	ND			
Technical Chlordane	25	ND			
Toxaphene	100	ND			
Surrogate Recovery (%)		QC Limit:	65-140		
2,4,5,6-Tetrachloro-m-xylene			85		
Decachlorobiphenyl			91		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0904-PES-S

Lab Job No.: B10I007
Lab Sample ID: LCS
Date Analyzed: 9/4/2010
Date Reported: 9/7/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	16.6	18.1	83	91	9	≤30	50-150
Heptachlor	ND	20	15.3	17.2	77	86	12	≤30	50-150
Aldrin	ND	20	13.3	16.5	67	83	21	≤30	50-140
Dieldrin	ND	40	36.1	35.5	90	89	2	≤30	70-130
Endrin	ND	40	35.1	33.2	88	83	6	≤30	70-150
4,4'-DDT	ND	40	46.1	38.5	115	96	18	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	85				120	105			65-140
DCP	91				112	115			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I007
Project:	Sunkist	Date Sampled:	9/3/2010
Project Site:	Sunkist, Ontario	Date Received:	9/3/2010
Matrix:	Soil	Date Extracted:	9/4/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/4-5/2010
Batch No.:	0904-PCB-S	Date Reported:	9/7/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B10I005-1	B10I005-2	B10I005-3	B10I005-4	B10I005-5
CLIENT SAMPLE I.D.		SPC-A-1	SPC-A-2	SPC-A-3	SPC-A-4	SPC-A-5
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	866	67.6	ND	ND	32.4
PCB-1260	25	ND	ND	ND	ND	ND
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		102	90	98	89	87
Decachlorobiphenyl		113	89	102	95	90

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I007
Project:	Sunkist	Date Sampled:	9/3/2010
Project Site:	Sunkist, Ontario	Date Received:	9/3/2010
Matrix:	Soil	Date Extracted:	9/4/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/5/2010
Batch No.:	0904-PCB-S	Date Reported:	9/7/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B10I005-6	B10I005-7	B10I005-8	B10I005-9	B10I005-10
CLIENT SAMPLE I.D.		SPC-A-6	SPC-A-7	SPC-A-8	SPC-A-9	SPC-A-10
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	40.6	155	1110	88.8	ND
PCB-1260	25	ND	ND	ND	ND	ND
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		91	85	90	86	96
Decachlorobiphenyl		95	87	86	93	102

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I007
Project:	Sunkist	Date Sampled:	9/3/2010
Project Site:	Sunkist, Ontario	Date Received:	9/3/2010
Matrix:	Soil	Date Extracted:	9/4/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/5/2010
Batch No.:	0904-PCB-S	Date Reported:	9/7/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B10I005-11	B10I005-12	B10I005-13	B10I005-14	B10I005-15
CLIENT SAMPLE I.D.		SPC-A-11	SPC-B-1	SPC-B-2	SPC-B-3	SPC-B-4
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	291	193	ND	ND	571
PCB-1260	25	ND	ND	ND	ND	ND
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		87	98	95	102	98
Decachlorobiphenyl		88	102	87	91	112

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I007
Project:	Sunkist	Date Sampled:	9/3/2010
Project Site:	Sunkist, Ontario	Date Received:	9/3/2010
Matrix:	Soil	Date Extracted:	9/4/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/5/2010
Batch No.:	0904-PCB-S	Date Reported:	9/7/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B10I005-16	B10I005-17	B10I005-18	B10I005-19	B10I005-20
CLIENT SAMPLE I.D.		SPC-B-5	SPC-B-6	SPC-C-1	SPC-C-2	SPC-C-3
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	ND	146	60.3	ND	ND
PCB-1260	25	ND	ND	ND	ND	ND
Surrogate Recovery (% QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		102	120	89	84	94
Decachlorobiphenyl		115	111	95	83	87

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I007
Project:	Sunkist	Date Sampled:	9/3/2010
Project Site:	Sunkist, Ontario	Date Received:	9/3/2010
Matrix:	Soil	Date Extracted:	9/4/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/5/2010
Batch No.:	0904-PCB-S	Date Reported:	9/7/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B10I005-21	B10I005-22	B10I005-23	B10I005-24	Method Blank
CLIENT SAMPLE I.D.		SPC-C-4	SPC-C-5	SPC-C-6	SPC-CC-1	
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	ND	ND	210	122	ND
PCB-1260	25	ND	ND	ND	ND	ND
Surrogate Recovery (% QC Limit: 65-140)						
2,4,5,6-Tetrachloro-m-xylene		91	105	97	87	85
Decachlorobiphenyl		98	90	89	90	91

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0904-PCB-S

Lab Job No.: B10I007
Lab Sample ID: LCS
Date Analyzed: 9/4-5/2010
Date Reported: 9/7/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	454	501	91	100	10	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	85				99	102			65-140
DCP	91				105	108			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I007
Project:	Sunkist	Date Sampled:	9/3/2010
Project Site:	Sunkist, Ontario	Date Received:	9/3/2010
Matrix:	Soil	Date Digested:	9/4/2010
Digestion Method:	3050B	Date Analyzed:	9/4/2010
Batch No.:	0904-MTS	Date Reported:	9/7/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10I007-1	B10I007-2	B10I007-12	B10I007-18	Report Limit
		SPC-A-1	SPC-A-2	SPC-B-1	SPC-C-1	
Antimony (Sb)	6010B	ND	ND	ND	ND	10
Arsenic (As)	6010B	7.20	8.23	3.56	7.64	0.5
Barium (Ba)	6010B	74.2	67.4	45.7	92.5	5.0
Beryllium (Be)	6010B	ND	ND	ND	ND	2.5
Cadmium (Cd)	6010B	ND	ND	ND	ND	2.5
Chromium (Cr)	6010B	19.1	20.6	6.48	18.1	2.5
Cobalt (Co)	6010B	3.90	6.39	2.33	5.36	2.5
Copper (Cu)	6010B	11.9	17.2	5.62	14.6	2.5
Lead (Pb)	6010B	9.51	4.26	2.72	4.99	2.5
Mercury (Hg)	7471A	ND	ND	ND	ND	0.1
Molybdenum (Mo)	6010B	ND	ND	ND	ND	5.0
Nickel (Ni)	6010B	4.36	10.5	2.99	10.8	2.5
Selenium (Se)	6010B	ND	ND	ND	ND	0.5
Silver (Ag)	6010B	ND	ND	ND	ND	2.5
Thallium (Tl)	6010B	ND	ND	ND	ND	2.5
Vanadium (V)	6010B	26.3	33.5	13.2	33.8	5.0
Zinc (Zn)	6010B	55.4	38.0	13	25.6	2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I007
Project:	Sunkist	Date Sampled:	9/3/2010
Project Site:	Sunkist, Ontario	Date Received:	9/3/2010
Matrix:	Soil	Date Digested:	9/4/2010
Digestion Method:	3050B	Date Analyzed:	9/4/2010
Batch No.:	0904-MTS	Date Reported:	9/7/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10I007-24			Report Limit
		SPC-CC-1			
Antimony (Sb)	6010B	ND			10
Arsenic (As)	6010B	6.49			0.5
Barium (Ba)	6010B	56.5			5.0
Beryllium (Be)	6010B	ND			2.5
Cadmium (Cd)	6010B	ND			2.5
Chromium (Cr)	6010B	14.9			2.5
Cobalt (Co)	6010B	5.4			2.5
Copper (Cu)	6010B	13.1			2.5
Lead (Pb)	6010B	6.25			2.5
Mercury (Hg)	7471A	ND			0.1
Molybdenum (Mo)	6010B	ND			5.0
Nickel (Ni)	6010B	5.66			2.5
Selenium (Se)	6010B	ND			0.5
Silver (Ag)	6010B	ND			2.5
Thallium (Tl)	6010B	ND			2.5
Vanadium (V)	6010B	25.3			5.0
Zinc (Zn)	6010B	30.5			2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10I007
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	9/4/2010
Batch No.:	0904-MTS	Date Reported:	9/7/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	25	24.6	22.9	98	92	7	≤20	80-120
Arsenic (As)	6010B	ND	25	28.2	25.4	113	102	10	≤20	80-120
Barium (Ba)	6010B	ND	25	23.4	21.5	94	86	8	≤20	80-120
Beryllium (Be)	6010B	ND	25	23.7	21.1	95	84	12	≤20	80-120
Cadmium (Cd)	6010B	ND	25	23.5	20.6	94	82	13	≤20	80-120
Chromium (Cr)	6010B	ND	25	24.3	22.5	97	90	8	≤20	80-120
Cobalt (Co)	6010B	ND	25	24.5	22.5	98	90	9	≤20	80-120
Copper (Cu)	6010B	ND	25	21.0	23.5	84	94	11	≤20	80-120
Lead (Pb)	6010B	ND	25	22.1	22.2	88	89	0	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.98	2.01	99	101	2	≤20	80-120
Molybdenum (Mo)	6010B	ND	25	23.1	22.5	92	90	3	≤20	80-120
Nickel (Ni)	6010B	ND	25	23.1	22.5	92	90	3	≤20	80-120
Selenium (Se)	6010B	ND	25	22.1	22.5	88	90	2	≤20	80-120
Silver (Ag)	6010B	ND	25	23.2	22.5	93	90	3	≤20	80-120
Thallium (Tl)	6010B	ND	25	22.4	23.2	90	93	4	≤20	80-120
Vanadium (V)	6010B	ND	25	22.6	23.5	90	94	4	≤20	80-120
Zinc (Zn)	6010B	ND	25	23.2	22.5	93	90	3	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I007
Project :	Sunkist	Date Sampled:	9/3/2010
Project Site:	Sunkist, Ontario	Date Received:	9/3/2010
Matrix:	Soil	Date Extracted:	9/4/2010
Extraction Method:	3550B	Date Analyzed:	9/5/2010
Batch No.:	0905-SVOCS	Date Reported:	9/7/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		1	1	1	1
Lab Sample I.D.		B10I007-1	B10I007-2	B10I007-12	B10I007-18
Client Sample I.D.		SPC-A-1	SPC-A-2	SPC-B-1	SPC-C-1
Compound	RL				
Naphthalene	0.025	ND	ND	ND	ND
Acenaphthylene	0.025	ND	ND	ND	ND
Acenaphthene	0.025	ND	ND	ND	ND
Fluorene	0.025	ND	ND	ND	ND
Phenanthrene	0.025	ND	ND	ND	ND
Anthracene	0.025	ND	ND	ND	ND
Fluoranthene	0.025	ND	ND	ND	ND
Pyrene	0.025	ND	ND	ND	ND
Benzo (a) anthracene	0.025	ND	ND	ND	ND
Chrysene	0.025	ND	ND	ND	ND
Benzo (b) fluoranthene	0.025	ND	ND	ND	ND
Benzo (k) fluoranthene	0.025	ND	ND	ND	ND
Benzo (a) pyrene	0.025	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.025	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.025	ND	ND	ND	ND
Benzo(g,h,i)perylene	0.025	ND	ND	ND	ND
Surrogate Recovery (%)		QC Limit 50-150			
Nitrobenzene-d5		84	77	82	79
2-Fluorobiphenyl		79	86	76	75
p-Terphenyl-d14		91	81	75	82

ND: Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I007
Project :	Sunkist	Date Sampled:	9/3/2010
Project Site:	Sunkist, Ontario	Date Received:	9/3/2010
Matrix:	Soil	Date Extracted:	9/4/2010
Extraction Method:	3550B	Date Analyzed:	9/5/2010
Batch No.:	0905-SVOCS	Date Reported:	9/7/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor	1			
Lab Sample I.D.	B10I007-24			
Client Sample I.D.	SPC-CC-1			
Compound	RL			
Naphthalene	0.025	ND		
Acenaphthylene	0.025	ND		
Acenaphthene	0.025	ND		
Fluorene	0.025	ND		
Phenanthrene	0.025	ND		
Anthracene	0.025	ND		
Fluoranthene	0.025	ND		
Pyrene	0.025	ND		
Benzo (a) anthracene	0.025	ND		
Chrysene	0.025	ND		
Benzo (b) fluoranthene	0.025	ND		
Benzo (k) fluoranthene	0.025	ND		
Benzo (a) pyrene	0.025	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND		
Dibenzo(a,h)anthracene	0.025	ND		
Benzo(g,h,i)perylene	0.025	ND		
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		78		
2-Fluorobiphenyl		74		
p-Terphenyl-d14		82		

ND: Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10I007
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	9/5/2010
Batch No.:	0905-SVOCS	Date Reported:	9/7/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.18	0.19	72	76	5	≤30	50-150
Acenaphthylene	ND	0.25	0.20	0.21	80	84	5	≤30	50-150
Acenaphthene	ND	0.25	0.16	0.18	64	72	12	≤30	50-150
Fluorene	ND	0.25	0.20	0.19	80	76	5	≤30	50-150
Phenanthrene	ND	0.25	0.21	0.19	84	76	10	≤30	50-150
Anthracene	ND	0.25	0.18	0.20	72	80	11	≤30	50-150
Fluoranthene	ND	0.25	0.19	0.18	76	72	5	≤30	50-150
Pyrene	ND	0.25	0.21	0.20	84	80	5	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.15	0.16	60	64	6	≤30	50-150
Chrysene	ND	0.25	0.16	0.18	64	72	12	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.19	0.18	76	72	5	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.17	0.19	68	76	11	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.16	0.17	64	68	6	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.18	0.20	72	80	11	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.19	0.19	76	76	0	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.20	0.18	80	72	11	≤30	50-150
Nitrobenzene-d5 %Rec.	91				81	90			50-150
2-Fluorobiphenyl %Rec.	85				79	85			50-150
p-Terphenyl-d14 %Rec.	88				81	86			50-150

ND: Not Detected (Below RL).



**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761
Tel: 562-413-8343
Tel/ Fax: 909-923-8628

Page 1 of 2
Lab Job Number B10I007

CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested							
Address 7011 Beach Blvd. HB. Ca.		<input type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal		EPA8260B (VOCs & Oxygenates) EPA8260B(BTEX & Oxygenates) EPA8021B (BTEX & MTBE) EPA8015M / 8015B (Gasoline) EPA8015M / 8015B (Diesel) EPA8081A (Organochlorine Pesticides) EPA 8082 (PCBs) EPA418.1 (TRPH) EPA8015M (Carbon Chain) EPA 7000s (Metals) CAM 17 Metals 8270 SIM PIVAS										<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal							
Report Attention	Phone # Fax: #877-232-4620	Sampled By Brian Bauer																			
Project No./ Name	Project Site Sunkist Ontario			Remarks																	
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container											Remarks				
		Date	Time																		
SPC-A-1	B10I007-1	9/3/20	2:44pm	Concrete		1	X						X	X	X	X	X	X	X	X	Sample ID
SPC-A-2	2		2:45pm				X						X	X	X	X	X	X	X	X	SPC-
SPC-A-3	3		2:46pm										X	X	X	X	X	X	X	X	instruction
SPC-A-4	4		2:48pm										X	X	X	X	X	X	X	X	from Mr. Brett
SPC-A-5	5		2:49pm										X	X	X	X	X	X	X	X	on 9/7/2010
SPC-A-6	6		2:50pm										X	X	X	X	X	X	X	X	
SPC-A-7	7		2:51pm										X	X	X	X	X	X	X	X	
SPC-A-8	8		2:53pm										X	X	X	X	X	X	X	X	
SPC-A-9	9		2:54pm										X	X	X	X	X	X	X	X	
SPC-A-10	10		2:56pm										X	X	X	X	X	X	X	X	
SPC-A-11	11		2:58pm										X	X	X	X	X	X	X	X	
SPC-B-1	12		3:00pm				X						X	X	X	X	X	X	X	X	
SPC-B-2	13		3:01pm										X	X	X	X	X	X	X	X	
SPC-B-3	14		3:03pm										X	X	X	X	X	X	X	X	
SPC-B-4	15		3:06pm										X	X	X	X	X	X	X	X	
Relinquished By Brian Bauer Company BEC		Date 9/3/20	Time 4:15pm	Received By J. [Signature] Company ABC Labs		Date 9/3/10	Time 4:19PM	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.													
Relinquished By		Date	Time	Received By		Date	Time														

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product, Preservative Code: IC=Ice, HC=HCl, HN=HNO3, SH=NaOH, ST=Na2S2O3, HS=H2SO4, * Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST= Steel Tube, B= Brass Tube, P=Plastic Bottle, V=VOA Vial, E= EnCore



**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761

Tel: 562-413-8343

Tel/ Fax: 909-923-8628

Page 2 of 2
Lab Job Number B10J007

CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested															
Address 17011 Beach Blvd. H.B. Ca.		<input type="checkbox"/> Chilled		<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B (BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td>8270 C SIX PNAS</td> <td></td> <td></td> <td></td> </tr> </table>										EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	8270 C SIX PNAS				<input type="checkbox"/> Rush 8 12 24 48 Hours
EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)											EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	8270 C SIX PNAS								
Report Attention	Phone # Fax: # 877-232-4620	<input checked="" type="checkbox"/> Intact												<input checked="" type="checkbox"/> Normal															
Project No./ Name	Project Site Sunkist Ontario		<input type="checkbox"/> Sample Seal																										
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container											Remarks												
		Date	Time																										
SPE-B-5	B10J007-16	9/3/20	3:08pm	Concrete																									
SPE-B-6	-17		3:09pm																										
SPE-C-1	-18		3:14pm				X			X	X			X		X	X												
SPE-C-2	-19		3:15pm							X	X			X															
SPE-C-3	-20		3:17pm							X	X			X															
SPE-C-4	-21		3:16pm							X	X			X															
SPE-C-5	-22		3:20pm							X	X			X															
SPE-C-6	-23		3:24pm							X	X			X															
SPE-CC-1	-24		1:20pm	Soil			X			X	X			X		X	X												

Relinquished By Brian Bauer	Company BEC	Date 9/3/20	Time 4:15pm	Received By J. Gray	Company ABC Labs	Date 9/3/20	Time 4:15pm	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

9/13/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 9/8/2010
Lab Job No.: B10I010

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 9/8/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0909-VOCS

Lab Job No.: B10I010
 Date Sampled: 9/8/2010
 Date Received: 9/8/2010
 Date Analyzed: 9/9/2010
 Date Reported: 9/13/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			09/09/10	09/09/10	09/09/10
Dilution Factor			1	1	1
Lab Sample I.D.			B10I010-1	B10I010-2	Method Blank
Client Sample I.D.			L-21-1	L-21-2	
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	ND
Chloromethane	0.0018	0.005	ND	ND	ND
Vinyl Chloride	0.0018	0.005	ND	ND	ND
Bromomethane	0.0018	0.005	ND	ND	ND
Chloroethane	0.0018	0.005	ND	ND	ND
Trichlorofluoromethane	0.0018	0.005	ND	ND	ND
1,1-Dichloroethene	0.0018	0.005	ND	ND	ND
Carbon disulfide	0.0018	0.005	ND	ND	ND
Methylene chloride	0.0018	0.005	ND	ND	ND
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	ND
1,1-Dichloroethane	0.0018	0.005	ND	ND	ND
2,2-Dichloropropane	0.0018	0.005	ND	ND	ND
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	ND
Bromochloromethane	0.0018	0.005	ND	ND	ND
Chloroform	0.0018	0.005	ND	ND	ND
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	ND
Vinyl acetate	0.0018	0.005	ND	ND	ND
Carbontetrachloride	0.0018	0.005	ND	ND	ND
1,1-Dichloropropene	0.0018	0.005	ND	ND	ND
1,2-Dichloroethane	0.0018	0.005	ND	ND	ND
Benzene	0.001	0.002	ND	ND	ND
Trichloroethene	0.0018	0.005	ND	ND	ND
1,2-Dichloropropane	0.0018	0.005	ND	ND	ND
Methyl methacrylate	0.0018	0.005	ND	ND	ND
Dibromomethane	0.0018	0.005	ND	ND	ND
Bromodichloromethane	0.0018	0.005	ND	ND	ND
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	ND
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	ND
Toluene	0.001	0.002	ND	ND	ND
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	ND
Ethylmethacrylate	0.0018	0.005	ND	ND	ND
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	ND
Dibromochloromethane	0.0018	0.005	ND	ND	ND
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	ND
Tetrachloroethene	0.0018	0.005	ND	ND	ND
1,3-Dichloropropane	0.0018	0.005	ND	ND	ND
Chlorobenzene	0.0018	0.005	ND	ND	ND

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0909-VOCS

Lab Job No.: B10I010
 Date Sampled: 9/8/2010
 Date Received: 9/8/2010
 Date Analyzed: 9/9/2010
 Date Reported: 9/13/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			09/09/10	09/09/10	09/09/10
Dilution Factor			1	1	1
Lab Sample I.D.			B10I010-1	B10I010-2	Method Blank
Client Sample I.D.			L-21-1	L-21-2	
Compound	MDL	RL			
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	ND
Ethylbenzene	0.001	0.002	ND	ND	ND
Total Xylene	0.002	0.004	ND	ND	ND
Styrene	0.0018	0.005	ND	ND	ND
Bromoform	0.0018	0.005	ND	ND	ND
Isopropyl benzene	0.0018	0.005	ND	ND	ND
Bromobenzene	0.0018	0.005	ND	ND	ND
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	ND
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	ND
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	ND
2-Chlorotoluene	0.0018	0.005	ND	ND	ND
n-Propyl benzene	0.0018	0.005	ND	ND	ND
4-Chlorotoluene	0.0018	0.005	ND	ND	ND
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	ND
tert-Butylbenzene	0.0018	0.005	ND	ND	ND
p-Isopropyl toluene	0.0018	0.005	ND	ND	ND
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	ND
sec-Butylbenzene	0.0018	0.005	ND	ND	ND
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	ND
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	ND
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	ND
n-Butylbenzene	0.0018	0.005	ND	ND	ND
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	ND
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	ND
Hexachlorobutadiene	0.0018	0.005	ND	ND	ND
Naphthalene	0.0018	0.005	ND	ND	ND
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	ND
Acetone	0.025	0.050	ND	ND	ND
2-Butanone(MEK)	0.01	0.025	ND	ND	ND
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	ND
MTBE	0.0018	0.005	ND	ND	ND
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	ND
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	ND
TAME	0.0018	0.005	ND	ND	ND
t-Butanol	0.010	0.020	ND	ND	ND
Ethanol	0.25	0.5	ND	ND	ND
Surrogate Recovery (%) QC Limit 70-130					
1,2-Dichloroethane-d4			85	94	87
Toluene-d8			84	98	78
4-Bromofluorobenzene			78	85	91

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10I010
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	9/9/2010
Batch No.:	0909-VOCS	Date Reported:	9/13/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.018	0.017	90	85	6	≤20	80-120
Benzene	ND	0.020	0.022	0.019	110	95	15	≤20	80-120
Trichloroethene	ND	0.020	0.020	0.018	100	90	11	≤20	80-120
Toluene	ND	0.020	0.021	0.023	105	115	9	≤20	80-120
Chlorobenzene	ND	0.020	0.020	0.021	100	105	5	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	87				88	90			70-130
Toluene-d8	78				90	93			70-130
4-Bromofluorobenzene	91				92	89			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I010
Project:	Sunkist	Date Sampled:	9/8/2010
Project Site:	Sunkist, Ontario	Date Received:	9/8/2010
Matrix:	Soil	Date Analyzed:	9/9/2010
Batch No.:	AI09-GS (TPH-G)	Date Analyzed:	9/10/2010
Batch No.:	BI10-DS (TPH-D)	Date Reported:	9/13/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%) For Gasoline	Surrogate(%) For Diesel
		C4-C12	C12-C24	C24-C40		
	RL	0.1	10	50		
L-21-1	B10I010-1	ND	ND	ND	85	86
L-21-2	B10I010-2	ND	ND	ND	81	83

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10I010
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	9/9/2010
Batch No.:	AI09-GS (TPH-G)	Date Reported:	9/13/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	1.05	1.14	105	114	8	≤20	80-120
Surrogate (%)	85				88	86			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: BI10-DS (TPH-D)

Lab Job No.: B10I010
Lab Sample ID: LCS
Date Analyzed: 9/10/2010
Date Reported: 9/13/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	426	418	85	84	2	≤20	80-120
Surrogate (%)	80				78	85			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I010
Project:	Sunkist	Date Sampled:	9/8/2010
Project Site:	Sunkist, Ontario	Date Received:	9/8/2010
Matrix:	Soil	Date Extracted:	9/10/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/10/2010
Batch No.:	0910-PES-S	Date Reported:	9/13/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1	1		
LAB SAMPLE I.D.		B10I010-1	B10I010-2	Method Blank		
CLIENT SAMPLE I.D.		L-21-1	L-21-2			
COMPOUND	RL					
α-BHC	5	ND	ND	ND		
γ-BHC	5	ND	ND	ND		
Heptachlor	5	ND	ND	ND		
Aldrin	5	ND	ND	ND		
β-BHC	5	ND	ND	ND		
δ-BHC	5	ND	ND	ND		
α-Chlordane	5	ND	ND	ND		
γ-Chlordane	5	ND	ND	ND		
Heptachlor Epoxide	5	ND	ND	ND		
Endosulfan I	5	ND	ND	ND		
4,4'-DDE	5	ND	ND	ND		
Dieldrin	5	ND	ND	ND		
Endrin	5	ND	ND	ND		
Endosulfan II	5	ND	ND	ND		
4,4'-DDD	5	ND	ND	ND		
4,4'-DDT	5	ND	ND	ND		
Endrin Aldehyde	5	ND	ND	ND		
Endosulfan Sulfate	5	ND	ND	ND		
Methoxychlor	20	ND	ND	ND		
Endrin Ketone	10	ND	ND	ND		
Technical Chlordane	25	ND	ND	ND		
Toxaphene	100	ND	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		91	89	115		
Decachlorobiphenyl		102	96	132		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0910-PES-S

Lab Job No.: B10I010
Lab Sample ID: LCS
Date Analyzed: 9/10/2010
Date Reported: 9/13/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	17.1	19.2	86	96	12	≤30	50-150
Heptachlor	ND	20	16.5	18.4	83	92	11	≤30	50-150
Aldrin	ND	20	17.2	18.9	86	95	9	≤30	50-140
Dieldrin	ND	40	33.5	35.6	84	89	6	≤30	70-130
Endrin	ND	40	34.2	33.8	86	85	1	≤30	70-150
4,4'-DDT	ND	40	34.5	35.7	86	89	3	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	115				102	95			65-140
DCP	132				92	91			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I010
Project:	Sunkist	Date Sampled:	9/8/2010
Project Site:	Sunkist, Ontario	Date Received:	9/8/2010
Matrix:	Soil	Date Extracted:	9/10/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/10/2010
Batch No.:	0910-PCB-S	Date Reported:	9/13/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	2
LAB SAMPLE I.D.		B10I010-1	B10I010-2	B10I010-3	B10I010-4	B10I010-5
CLIENT SAMPLE I.D.		L-21-1	L-21-2	SPC-CC-2	SPC-CC-3	SPC-CC-4
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	ND	ND	2590	822	1010
PCB-1260	25	ND	ND	ND	ND	ND
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		91	89	102	101	115
Decachlorobiphenyl		102	96	115	105	136

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I010
Project:	Sunkist	Date Sampled:	9/8/2010
Project Site:	Sunkist, Ontario	Date Received:	9/8/2010
Matrix:	Soil	Date Extracted:	9/10/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/10/2010
Batch No.:	0910-PCB-S	Date Reported:	9/13/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1			
LAB SAMPLE I.D.		B10I010-6	Method Blank			
CLIENT SAMPLE I.D.		SPC-CC-5				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	420	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		92	115			
Decachlorobiphenyl		101	132			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0910-PCB-S

Lab Job No.: B10I010
Lab Sample ID: LCS
Date Analyzed: 9/10/2010
Date Reported: 9/13/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	412	408	82	82	1	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	115				110	112			65-140
DCP	132				108	110			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I010
Project:	Sunkist	Date Sampled:	9/8/2010
Project Site:	Sunkist, Ontario	Date Received:	9/8/2010
Matrix:	Soil	Date Digested:	9/10/2010
Digestion Method:	3050B	Date Analyzed:	9/11/2010
Batch No.:	0911-MTS	Date Reported:	9/13/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10I010-1	B10I010-2			Report
		L-21-1	L-21-2			Limit
Antimony (Sb)	6010B	ND	ND			10
Arsenic (As)	6010B	6.49	6.26			0.5
Barium (Ba)	6010B	36.5	36.4			5.0
Beryllium (Be)	6010B	ND	ND			2.5
Cadmium (Cd)	6010B	ND	ND			2.5
Chromium (Cr)	6010B	33.5	29.1			2.5
Cobalt (Co)	6010B	8.20	7.91			2.5
Copper (Cu)	6010B	12.7	11.2			2.5
Lead (Pb)	6010B	2.54	2.86			2.5
Mercury (Hg)	7471A	ND	ND			0.1
Molybdenum (Mo)	6010B	ND	ND			5.0
Nickel (Ni)	6010B	8.61	8.77			2.5
Selenium (Se)	6010B	ND	ND			0.5
Silver (Ag)	6010B	ND	ND			2.5
Thallium (Tl)	6010B	ND	ND			2.5
Vanadium (V)	6010B	40.3	32.1			5.0
Zinc (Zn)	6010B	37.1	36.1			2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10I010
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	9/11/2010
Batch No.:	0911-MTS	Date Reported:	9/13/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	25	23.1	20.5	92	82	12	≤20	80-120
Arsenic (As)	6010B	ND	25	22.6	21.8	90	87	4	≤20	80-120
Barium (Ba)	6010B	ND	25	22.5	23.6	90	94	5	≤20	80-120
Beryllium (Be)	6010B	ND	25	20.8	21.2	83	85	2	≤20	80-120
Cadmium (Cd)	6010B	ND	25	22.6	23.7	90	95	5	≤20	80-120
Chromium (Cr)	6010B	ND	25	20.8	21.5	83	86	3	≤20	80-120
Cobalt (Co)	6010B	ND	25	23.1	22.4	92	90	3	≤20	80-120
Copper (Cu)	6010B	ND	25	22.3	22.8	89	91	2	≤20	80-120
Lead (Pb)	6010B	ND	25	23.4	21.5	94	86	8	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.95	1.87	98	94	4	≤20	80-120
Molybdenum (Mo)	6010B	ND	25	22.5	23.6	90	94	5	≤20	80-120
Nickel (Ni)	6010B	ND	25	24.5	22.8	98	91	7	≤20	80-120
Selenium (Se)	6010B	ND	25	23.1	22.5	92	90	3	≤20	80-120
Silver (Ag)	6010B	ND	25	21.6	20.7	86	83	4	≤20	80-120
Thallium (Tl)	6010B	ND	25	21.5	22.2	86	89	3	≤20	80-120
Vanadium (V)	6010B	ND	25	23.6	22.7	94	91	4	≤20	80-120
Zinc (Zn)	6010B	ND	25	20.1	21.5	80	86	7	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I010
Project :	Sunkist	Date Sampled:	9/8/2010
Project Site:	Sunkist, Ontario	Date Received:	9/8/2010
Matrix:	Soil	Date Extracted:	9/10/2010
Extraction Method:	3550B	Date Analyzed:	9/11/2010
Batch No.:	0911-SVOCS	Date Reported:	9/13/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		1	1		
Lab Sample I.D.		B10I010-1	B10I010-2		
Client Sample I.D.		L-21-1	L-21-2		
Compound	RL				
Naphthalene	0.025	ND	ND		
Acenaphthylene	0.025	ND	ND		
Acenaphthene	0.025	ND	ND		
Fluorene	0.025	ND	ND		
Phenanthrene	0.025	ND	ND		
Anthracene	0.025	ND	ND		
Fluoranthene	0.025	ND	ND		
Pyrene	0.025	ND	ND		
Benzo (a) anthracene	0.025	ND	ND		
Chrysene	0.025	ND	ND		
Benzo (b) fluoranthene	0.025	ND	ND		
Benzo (k) fluoranthene	0.025	ND	ND		
Benzo (a) pyrene	0.025	ND	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND	ND		
Dibenzo(a,h)anthracene	0.025	ND	ND		
Benzo(g,h,i)perylene	0.025	ND	ND		
Surrogate Recovery (%) QC Limit 50-150					
Nitrobenzene-d5		78	84		
2-Fluorobiphenyl		84	91		
p-Terphenyl-d14		90	96		

ND: Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10I010
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	9/11/2010
Batch No.:	0911-SVOCS	Date Reported:	9/13/2010

MB/LCS/LCSD Report

Unit: mg/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.21	0.19	84	76	10	≤30	50-150
Acenaphthylene	ND	0.25	0.22	0.17	88	68	26	≤30	50-150
Acenaphthene	ND	0.25	0.20	0.18	80	72	11	≤30	50-150
Fluorene	ND	0.25	0.26	0.23	104	92	12	≤30	50-150
Phenanthrene	ND	0.25	0.17	0.21	68	84	21	≤30	50-150
Anthracene	ND	0.25	0.18	0.20	72	80	11	≤30	50-150
Fluoranthene	ND	0.25	0.23	0.21	92	84	9	≤30	50-150
Pyrene	ND	0.25	0.17	0.16	68	64	6	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.20	0.18	80	72	11	≤30	50-150
Chrysene	ND	0.25	0.21	0.24	84	96	13	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.18	0.17	72	68	6	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.21	0.17	84	68	21	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.20	0.19	80	76	5	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.16	0.15	64	60	6	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.17	0.14	68	56	19	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.18	0.19	72	76	5	≤30	50-150
Nitrobenzene-d5 %Rec.	78				84	79			50-150
2-Fluorobiphenyl %Rec.	85				86	81			50-150
p-Terphenyl-d14 %Rec.	92				90	87			50-150

ND: Not Detected (Below RL).

CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested <input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal	
Address 17011 BEACH BLVD HB, CA		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal													
Report Attention	Phone # 877-232-4620	Sampled By MH													
Project No./ Name	Project Site SUNKIST ONTARIO														

Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	8270C SIM ANAL				Remarks	
		Date	Time																				
L-21-1	B107010-1	9/8/10	0948	SOIL			X					X	X		X		X	X					
L-21-2	2	9/8/10	0949				X					X	X		X		X	X					
SPC-CC-2	3	9/8/10	1145										X										
SPC-CC-3	4	9/8/10	1146										X										
SPC-CC-4	5	9/8/10	1147										X										
SPC-CC-5	6	9/8/10	1148										X										

Relinquished By MICHAEL HERNANDEZ	Company BEC	Date 9/8/10	Time 1:50PM	Received By J. Jones	Company ABC Labs	Date 9/8/10	Time 1:50PM	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

9/13/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 9/9/2010
Lab Job No.: B10I013

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 9/9/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I013
Project:	Sunkist	Date Sampled:	9/9/2010
Project Site:	Sunkist, Ontario	Date Received:	9/9/2010
Matrix:	Soil	Date Extracted:	9/10/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/10/2010
Batch No.:	0910-PCB-S	Date Reported:	9/13/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1		
LAB SAMPLE I.D.		B10I013-1	B10I013-2	Method Blank		
CLIENT SAMPLE I.D.		SPC-CC-6	SPC-CC-7			
COMPOUND	RL					
PCB-1016	25	ND	ND	ND		
PCB-1221	50	ND	ND	ND		
PCB-1232	25	ND	ND	ND		
PCB-1242	25	ND	ND	ND		
PCB-1248	25	ND	ND	ND		
PCB-1254	25	680	879	ND		
PCB-1260	25	ND	ND	ND		
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		112	103	115		
Decachlorobiphenyl		105	110	132		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0910-PCB-S

Lab Job No.: B10I013
Lab Sample ID: LCS
Date Analyzed: 9/10/2010
Date Reported: 9/13/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	412	408	82	82	1	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	115				110	112			65-140
DCP	132				108	110			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name <u>BEZ</u>		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested															
Address <u>17011 Beach Blvd. HB, CA</u>		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal												<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal															
Report Attention	Phone # Fax: # <u>877-232-4620</u>	Sampled By <u>HERNANDEZ</u>		EPA8260B (VOCs & Oxygenates)		EPA8260B(BTEX & Oxygenates)		EPA8021B (BTEX & MTBE)		EPA8015M / 8015B (Gasoline)		EPA8015M / 8015B (Diesel)				EPA8081A (Organochlorine Pesticides)		EPA 8082 (PCBs)		EPA418.1 (TRPH)		EPA8015M (Carbon Chain)		EPA 7000s (Metals)		CAM 17 Metals		Remarks	
Project No./ Name	Project Site <u>JUNKYST ONTARIO</u>			Client Sample ID	Lab Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container																			
				<u>SPC-CC-6</u>	<u>B102013-1</u>	<u>9/9/10</u>	<u>1239</u>	<u>SOIL</u>																					
				<u>SPC-CC-7</u>	<u>↓ -2</u>	<u>9/9/10</u>	<u>1240</u>	<u>SOIL</u>																					
Relinquished By <u>[Signature]</u>		Company <u>BEZ</u>		Date <u>9/9/10</u>		Time <u>2:45</u>		Received By <u>[Signature]</u>		Company <u>ABC</u>		Date <u>9/9/10</u>		Time <u>2:45</u>		Note: Samples are discarded 30 days after results are reported unless other arrangements are made.													
Relinquished By		Company		Date		Time		Received By		Company		Date		Time															

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

9/13/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 9/10/2010
Lab Job No.: B10I016

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 9/10/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0910-VOCS

Lab Job No.: B10I016
 Date Sampled: 9/10/2010
 Date Received: 9/10/2010
 Date Analyzed: 9/10/2010
 Date Reported: 9/13/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			09/10/10	09/10/10	
Dilution Factor			1	1	
Lab Sample I.D.			B10I016-1	Method Blank	
Client Sample I.D.			L-11-2		
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	
Chloromethane	0.0018	0.005	ND	ND	
Vinyl Chloride	0.0018	0.005	ND	ND	
Bromomethane	0.0018	0.005	ND	ND	
Chloroethane	0.0018	0.005	ND	ND	
Trichlorofluoromethane	0.0018	0.005	ND	ND	
1,1-Dichloroethene	0.0018	0.005	ND	ND	
Carbon disulfide	0.0018	0.005	ND	ND	
Methylene chloride	0.0018	0.005	ND	ND	
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	
1,1-Dichloroethane	0.0018	0.005	ND	ND	
2,2-Dichloropropane	0.0018	0.005	ND	ND	
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	
Bromochloromethane	0.0018	0.005	ND	ND	
Chloroform	0.0018	0.005	ND	ND	
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	
Vinyl acetate	0.0018	0.005	ND	ND	
Carbontetrachloride	0.0018	0.005	ND	ND	
1,1-Dichloropropene	0.0018	0.005	ND	ND	
1,2-Dichloroethane	0.0018	0.005	ND	ND	
Benzene	0.001	0.002	ND	ND	
Trichloroethene	0.0018	0.005	ND	ND	
1,2-Dichloropropane	0.0018	0.005	ND	ND	
Methyl methacrylate	0.0018	0.005	ND	ND	
Dibromomethane	0.0018	0.005	ND	ND	
Bromodichloromethane	0.0018	0.005	ND	ND	
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Toluene	0.001	0.002	ND	ND	
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Ethylmethacrylate	0.0018	0.005	ND	ND	
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	
Dibromochloromethane	0.0018	0.005	ND	ND	
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	
Tetrachloroethene	0.0018	0.005	ND	ND	
1,3-Dichloropropane	0.0018	0.005	ND	ND	
Chlorobenzene	0.0018	0.005	ND	ND	

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0910-VOCS

Lab Job No.: B10I016
 Date Sampled: 9/10/2010
 Date Received: 9/10/2010
 Date Analyzed: 9/10/2010
 Date Reported: 9/13/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		09/10/10	09/10/10		
Dilution Factor		1	1		
Lab Sample I.D.		B10I016-1	Method Blank		
Client Sample I.D.		L-11-2			
Compound	MDL	RL			
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	
Total Xylene	0.002	0.004	ND	ND	
Styrene	0.0018	0.005	ND	ND	
Bromoform	0.0018	0.005	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	
Acetone	0.025	0.050	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	
MTBE	0.0018	0.005	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	
TAME	0.0018	0.005	ND	ND	
t-Butanol	0.010	0.020	ND	ND	
Ethanol	0.25	0.5	ND	ND	
Surrogate Recovery (%) QC Limit 70-130					
1,2-Dichloroethane-d4			91	81	
Toluene-d8			90	80	
4-Bromofluorobenzene			102	85	

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0910-VOCS

Lab Job No.: B10I016
Lab Sample ID: LCS
Date Analyzed: 9/10/2010
Date Reported: 9/13/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.017	0.018	85	90	6	≤20	80-120
Benzene	ND	0.020	0.019	0.021	95	105	10	≤20	80-120
Trichloroethene	ND	0.020	0.021	0.020	105	100	5	≤20	80-120
Toluene	ND	0.020	0.022	0.022	110	110	0	≤20	80-120
Chlorobenzene	ND	0.020	0.021	0.020	105	100	5	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	81				92	91			70-130
Toluene-d8	80				93	92			70-130
4-Bromofluorobenzene	85				97	90			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I016
Project:	Sunkist	Date Sampled:	9/10/2010
Project Site:	Sunkist, Ontario	Date Received:	9/10/2010
Matrix:	Soil	Date Analyzed:	9/10/2010
Batch No.:	AI10-GS (TPH-G)	Date Analyzed:	9/10/2010
Batch No.:	BI10-DS (TPH-D)	Date Reported:	9/13/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%) For Gasoline	Surrogate(%) For Diesel
		C4-C12	C12-C24	C24-C40		
	RL	0.1	10	50		
L-11-2	B10I016-1	ND	179	ND	91	84

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10I016

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 9/10/2010

Batch No.: AI10-GS (TPH-G)

Date Reported: 9/13/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method	Spike	LCS	LCSD	LCS	LCSD	%RPD	%RPD	%Rec
	Blank	Conc.			%Rec.	%rec.		Accept	Accept
								Limit	Limit
TPH-G	ND	1.0	0.98	1.01	98	101	3	≤20	80-120
Surrogate (%)	92				91	93			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10I016

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 9/10/2010

Batch No.: BI10-DS (TPH-D)

Date Reported: 9/13/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	426	418	85	84	2	≤20	80-120
Surrogate (%)	80				78	85			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I016
Project:	Sunkist	Date Sampled:	9/10/2010
Project Site:	Sunkist, Ontario	Date Received:	9/10/2010
Matrix:	Soil	Date Extracted:	9/10/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/10/2010
Batch No.:	0910-PES-S	Date Reported:	9/13/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1			
LAB SAMPLE I.D.		B10I016-1	Method Blank			
CLIENT SAMPLE I.D.		L-11-2				
COMPOUND	RL					
α-BHC	5	ND	ND			
γ-BHC	5	ND	ND			
Heptachlor	5	ND	ND			
Aldrin	5	ND	ND			
β-BHC	5	ND	ND			
δ-BHC	5	ND	ND			
α-Chlordane	5	ND	ND			
γ-Chlordane	5	ND	ND			
Heptachlor Epoxide	5	ND	ND			
Endosulfan I	5	ND	ND			
4,4'-DDE	5	ND	ND			
Dieldrin	5	ND	ND			
Endrin	5	ND	ND			
Endosulfan II	5	ND	ND			
4,4'-DDD	5	ND	ND			
4,4'-DDT	5	ND	ND			
Endrin Aldehyde	5	ND	ND			
Endosulfan Sulfate	5	ND	ND			
Methoxychlor	20	ND	ND			
Endrin Ketone	10	ND	ND			
Technical Chlordane	25	ND	ND			
Toxaphene	100	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		112	115			
Decachlorobiphenyl		105	132			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0910-PES-S

Lab Job No.: B10I016
Lab Sample ID: LCS
Date Analyzed: 9/10/2010
Date Reported: 9/13/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	17.1	19.2	86	96	12	≤30	50-150
Heptachlor	ND	20	16.5	18.4	83	92	11	≤30	50-150
Aldrin	ND	20	17.2	18.9	86	95	9	≤30	50-140
Dieldrin	ND	40	33.5	35.6	84	89	6	≤30	70-130
Endrin	ND	40	34.2	33.8	86	85	1	≤30	70-150
4,4'-DDT	ND	40	34.5	35.7	86	89	3	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	115				102	95			65-140
DCP	132				92	91			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I016
Project:	Sunkist	Date Sampled:	9/10/2010
Project Site:	Sunkist, Ontario	Date Received:	9/10/2010
Matrix:	Soil	Date Extracted:	9/10/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/10/2010
Batch No.:	0910-PCB-S	Date Reported:	9/13/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	
LAB SAMPLE I.D.		B10I016-1	B10I016-2	B10I016-3	Method Blank	
CLIENT SAMPLE I.D.		L-11-2	SPC-CC-8	SPC-CC-9		
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	
PCB-1221	50	ND	ND	ND	ND	
PCB-1232	25	ND	ND	ND	ND	
PCB-1242	25	ND	ND	ND	ND	
PCB-1248	25	ND	ND	ND	ND	
PCB-1254	25	ND	1040	175	ND	
PCB-1260	25	ND	ND	ND	ND	
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		112	101	92	115	
Decachlorobiphenyl		105	96	112	132	

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0910-PCB-S

Lab Job No.: B10I016
Lab Sample ID: LCS
Date Analyzed: 9/10/2010
Date Reported: 9/13/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	412	408	82	82	1	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	115				110	112			65-140
DCP	132				108	110			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I016
Project:	Sunkist	Date Sampled:	9/10/2010
Project Site:	Sunkist, Ontario	Date Received:	9/10/2010
Matrix:	Soil	Date Digested:	9/10/2010
Digestion Method:	3050B	Date Analyzed:	9/11/2010
Batch No.:	0911-MTS	Date Reported:	9/13/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10I016-1				Report Limit
		L-11-2				
Antimony (Sb)	6010B	ND				10
Arsenic (As)	6010B	5.46				0.5
Barium (Ba)	6010B	48.7				5.0
Beryllium (Be)	6010B	ND				2.5
Cadmium (Cd)	6010B	ND				2.5
Chromium (Cr)	6010B	31.4				2.5
Cobalt (Co)	6010B	8.84				2.5
Copper (Cu)	6010B	13.7				2.5
Lead (Pb)	6010B	4.40				2.5
Mercury (Hg)	7471A	ND				0.1
Molybdenum (Mo)	6010B	ND				5.0
Nickel (Ni)	6010B	9.72				2.5
Selenium (Se)	6010B	ND				0.5
Silver (Ag)	6010B	ND				2.5
Thallium (Tl)	6010B	ND				2.5
Vanadium (V)	6010B	33.1				5.0
Zinc (Zn)	6010B	48.0				2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client: Bowyer Environmental
 Project: Sunkist
 Matrix: Soil
 Batch No.: 0911-MTS

Lab Job No.: B10I016
 Lab Sample ID: LCS
 Date Analyzed: 9/11/2010
 Date Reported: 9/13/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	25	23.1	20.5	92	82	12	≤20	80-120
Arsenic (As)	6010B	ND	25	22.6	21.8	90	87	4	≤20	80-120
Barium (Ba)	6010B	ND	25	22.5	23.6	90	94	5	≤20	80-120
Beryllium (Be)	6010B	ND	25	20.8	21.2	83	85	2	≤20	80-120
Cadmium (Cd)	6010B	ND	25	22.6	23.7	90	95	5	≤20	80-120
Chromium (Cr)	6010B	ND	25	20.8	21.5	83	86	3	≤20	80-120
Cobalt (Co)	6010B	ND	25	23.1	22.4	92	90	3	≤20	80-120
Copper (Cu)	6010B	ND	25	22.3	22.8	89	91	2	≤20	80-120
Lead (Pb)	6010B	ND	25	23.4	21.5	94	86	8	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.95	1.87	98	94	4	≤20	80-120
Molybdenum (Mo)	6010B	ND	25	22.5	23.6	90	94	5	≤20	80-120
Nickel (Ni)	6010B	ND	25	24.5	22.8	98	91	7	≤20	80-120
Selenium (Se)	6010B	ND	25	23.1	22.5	92	90	3	≤20	80-120
Silver (Ag)	6010B	ND	25	21.6	20.7	86	83	4	≤20	80-120
Thallium (Tl)	6010B	ND	25	21.5	22.2	86	89	3	≤20	80-120
Vanadium (V)	6010B	ND	25	23.6	22.7	94	91	4	≤20	80-120
Zinc (Zn)	6010B	ND	25	20.1	21.5	80	86	7	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I016
Project :	Sunkist	Date Sampled:	9/10/2010
Project Site:	Sunkist, Ontario	Date Received:	9/10/2010
Matrix:	Soil	Date Extracted:	9/10/2010
Extraction Method:	3550B	Date Analyzed:	9/11/2010
Batch No.:	0911-SVOCS	Date Reported:	9/13/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		1		
Lab Sample I.D.		B10I016-1		
Client Sample I.D.		L-11-2		
Compound	RL			
Naphthalene	0.025	ND		
Acenaphthylene	0.025	ND		
Acenaphthene	0.025	ND		
Fluorene	0.025	ND		
Phenanthrene	0.025	ND		
Anthracene	0.025	ND		
Fluoranthene	0.025	ND		
Pyrene	0.025	ND		
Benzo (a) anthracene	0.025	ND		
Chrysene	0.025	ND		
Benzo (b) fluoranthene	0.025	ND		
Benzo (k) fluoranthene	0.025	ND		
Benzo (a) pyrene	0.025	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND		
Dibenzo(a,h)anthracene	0.025	ND		
Benzo(g,h,i)perylene	0.025	ND		
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		84		
2-Fluorobiphenyl		81		
p-Terphenyl-d14		79		

ND: Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10I016
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	9/11/2010
Batch No.:	0911-SVOCS	Date Reported:	9/13/2010

MB/LCS/LCSD Report

Unit: mg/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.21	0.19	84	76	10	≤30	50-150
Acenaphthylene	ND	0.25	0.22	0.17	88	68	26	≤30	50-150
Acenaphthene	ND	0.25	0.20	0.18	80	72	11	≤30	50-150
Fluorene	ND	0.25	0.26	0.23	104	92	12	≤30	50-150
Phenanthrene	ND	0.25	0.17	0.21	68	84	21	≤30	50-150
Anthracene	ND	0.25	0.18	0.20	72	80	11	≤30	50-150
Fluoranthene	ND	0.25	0.23	0.21	92	84	9	≤30	50-150
Pyrene	ND	0.25	0.17	0.16	68	64	6	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.20	0.18	80	72	11	≤30	50-150
Chrysene	ND	0.25	0.21	0.24	84	96	13	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.18	0.17	72	68	6	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.21	0.17	84	68	21	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.20	0.19	80	76	5	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.16	0.15	64	60	6	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.17	0.14	68	56	19	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.18	0.19	72	76	5	≤30	50-150
Nitrobenzene-d5 %Rec.	78				84	79			50-150
2-Fluorobiphenyl %Rec.	85				86	81			50-150
p-Terphenyl-d14 %Rec.	92				90	87			50-150

ND: Not Detected (Below RL).



**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761
Tel: 562-413-8343
Tel/ Fax: 909-923-8628

Page 1 of 1
Lab Job Number B101016

CHAIN OF CUSTODY

Client Name <u>BEC</u>				Sample Receipt Conditions		Analyses Requested												Turn Around Time Requested																		
Address <u>17011 Beach Blvd. H.B. Ca.</u>				<input checked="" type="checkbox"/> Chilled		<table border="1"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B(BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td><u>8270C SIM PNAs</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>												EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<u>8270C SIM PNAs</u>						<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal	
EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)													EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<u>8270C SIM PNAs</u>													
Report Attention	Phone # Fax: # <u>877-232-4620</u>	Sampled By <u>Brian Bauer</u>		<input type="checkbox"/> Intact																																
Project No./ Name	Project Site <u>Sunkist Ontario</u>			<input type="checkbox"/> Sample Seal																																
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container													Remarks																	
<u>L-11-1</u>	<u>B101016</u>	<u>9/10/10</u>	<u>8:45am</u>	<u>soil</u>															<u>hold</u>																	
<u>L-11-2</u>	<u>↓ -1</u>	<u>9/10/10</u>	<u>8:46am</u>	<u>↓</u>			<u>X</u>				<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>																					
<u>L-11-3</u>		<u>9/10/10</u>	<u>8:47am</u>	<u>↓</u>													<u>hold</u>																			
<u>SPEC-8</u>	<u>↓ -2</u>	<u>9/10/10</u>	<u>2:15pm</u>	<u>↓</u>							<u>X</u>																									
<u>SPEC-9</u>	<u>↓ -3</u>	<u>9/10/10</u>	<u>2:16pm</u>	<u>↓</u>							<u>X</u>																									
Relinquished By <u>Brian Bauer</u>		Company <u>BEC</u>	Date <u>9/10/10</u>	Time <u>2:41pm</u>	Received By <u>J. Jay</u>		Company <u>ABC Labs</u>	Date <u>9/10/10</u>	Time <u>2:41PM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.																										
Relinquished By		Company	Date	Time	Received By		Company	Date	Time																											

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

9/20/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 9/10/2010
Lab Job No.: B10I016AA

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 9/10/10 and analyzed by the following EPA methods:

EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I016A
Project:	Sunkist	Date Sampled:	9/10/2010
Project Site:	Sunkist, Ontario	Date Received:	9/10/2010
Matrix:	Soil	Date Analyzed:	9/17/2010
Batch No.:	AI17-GS (TPH-G)	Date Analyzed:	9/18/2010
Batch No.:	BI18-DS (TPH-D)	Date Reported:	9/20/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%) For Gasoline	Surrogate(%) For Diesel
		C4-C12	C12-C24	C24-C40		
	RL	0.1	10	50		
L-11-1&3 Comp.	B10I016-4&5	ND	171	ND	90	86

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline)

Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10I016A
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	9/17/2010
Batch No.:	AI17-GS (TPH-G)	Date Reported:	9/20/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method	Spike	LCS	LCSD	LCS	LCSD	%RPD	%RPD	%Rec
	Blank	Conc.			%Rec.	%rec.		Accept	Accept
								Limit	Limit
TPH-G	ND	1.0	0.81	0.91	81	91	11	≤20	80-120
Surrogate (%)	88				89	85			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10I016A

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 9/18/2010

Batch No.: BI18-DS (TPH-D)

Date Reported: 9/20/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	405	426	81	85	5	≤20	80-120
Surrogate (%)	90				86	90			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I016A
Project:	Sunkist	Date Sampled:	9/10/2010
Project Site:	Sunkist, Ontario	Date Received:	9/10/2010
Matrix:	Soil	Date Extracted:	9/17/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/19/2010
Batch No.:	0919-PCB-S	Date Reported:	9/20/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1		
LAB SAMPLE I.D.		B10I016-4&5	Method Blank		
CLIENT SAMPLE I.D.		L-11-1&3 Comp.			
COMPOUND	RL				
PCB-1016	25	ND	ND		
PCB-1221	50	ND	ND		
PCB-1232	25	ND	ND		
PCB-1242	25	ND	ND		
PCB-1248	25	ND	ND		
PCB-1254	25	ND	ND		
PCB-1260	25	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140			
2,4,5,6-Tetrachloro-m-xylene		102	91		
Decachlorobiphenyl		113	89		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0919-PCB-S

Lab Job No.: B10I016A
Lab Sample ID: LCS
Date Analyzed: 9/19/2010
Date Reported: 9/20/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	428	444	86	89	4	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	91				89	90			65-140
DCP	89				85	92			65-140

ND: Not Detected (Below RL).



Environmental Laboratories, Inc.

1640B S. Grove Ave., Ontario, CA 91761
Tel: 562-413-8343
Tel/ Fax: 909-923-8628

CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested												Turn Around Time Requested							
Address 17011 Beach Blvd. H.B. Ca.		<input checked="" type="checkbox"/> Chilled <input type="checkbox"/> Intact <input type="checkbox"/> Sample Seal		<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal																			
Report Attention	Phone # Fax: # 877-232-4620	Sampled By Bryan Bauer		EPA8260B (VOCs & Oxygenates) EPA8260B(BTEX & Oxygenates) EPA8021B (BTEX & MTBE) EPA8015M / 8015B (Gasoline) EPA8015M / 8015B (Diesel) EPA8081A (Organochlorine Pesticides) EPA 8082 (PCBs) EPA418.1 (TRPH) EPA8015M (Carbon Chain) EPA 7000s (Metals) CAM 17 Metals 8270C SIMPNAs																			
Project No./ Name	Project Site Sunkist Ontario			Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container													Remarks
	Date	Time																					
	L-11-1	BIO1016A	9/10/10	8:45am		soil														hold			
	L-11-2	↓ -1	9/10/10	8:46am							X				X X		X		X X				
	L-11-3	↓ -5	9/10/10	8:47am																hold			
	SPECC-8	↓ -2	9/10/10	2:15pm											X								
	SPECC-9	↓ -3	9/10/10	2:16pm											X								
<p>Instruction from Mr. Bowyer via E-mail dated on 9/17/2010: Composite L-11-1 and L-11-3 for PCBs and TPH</p>																							
Relinquished By Bryan Bauer		Company BEC		Date 9/10/10		Time 2:41pm		Received By J. Jay		Company ABC Labs		Date 9/10/10		Time 2:41PM		Note: Samples are discarded 30 days after results are reported unless other arrangements are made.							
Relinquished By		Company		Date		Time		Received By		Company		Date		Time									

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product, Preservative Code: IC=Ice, HC=HCl, HN=HNO₃, SH=NaOH, ST=Na₂S₂O₃, HS=H₂SO₄, * Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST= Steel Tube, B= Brass Tube, P=Plastic Bottle, V=VOA Vial, E= EnCore

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

9/23/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 9/20/2010
Lab Job No.: B10I031

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 9/20/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I031
Project:	Sunkist	Date Sampled:	9/20/2010
Project Site:	Sunkist, Ontario	Date Received:	9/20/2010
Matrix:	Soil	Date Extracted:	9/22/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/22/2010
Batch No.:	0922-PCB-S	Date Reported:	9/23/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B10I031-1	B10I031-2	B10I031-3	B10I031-4	B10I031-5
CLIENT SAMPLE I.D.		L64-F1-5.0	L64-SW1-2.5	L64-SW2-2.5	L64-SW3-2.5	L64-SW4-2.5
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	51.5	ND	ND	ND	ND
PCB-1260	25	ND	ND	ND	ND	ND
Surrogate Recovery (%) QC Limit		65-140				
2,4,5,6-Tetrachloro-m-xylene		91	87	96	93	101
Decachlorobiphenyl		85	92	112	105	98

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I031
Project:	Sunkist	Date Sampled:	9/20/2010
Project Site:	Sunkist, Ontario	Date Received:	9/20/2010
Matrix:	Soil	Date Extracted:	9/22/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/22/2010
Batch No.:	0922-PCB-S	Date Reported:	9/23/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1				
LAB SAMPLE I.D.		Method Blank				
CLIENT SAMPLE I.D.						
COMPOUND	RL					
PCB-1016	25	ND				
PCB-1221	50	ND				
PCB-1232	25	ND				
PCB-1242	25	ND				
PCB-1248	25	ND				
PCB-1254	25	ND				
PCB-1260	25	ND				
Surrogate Recovery (%): QC Limit:						
2,4,5,6-Tetrachloro-m-xylene		85				
Decachlorobiphenyl		91				

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0922-PCB-S

Lab Job No.: B10I031
Lab Sample ID: LCS
Date Analyzed: 9/22/2010
Date Reported: 9/23/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	435	422	87	84	3	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	85				91	93			65-140
DCP	91				86	91			65-140

ND: Not Detected (Below RL).



**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761
Tel: 562-413-8343
Tel/ Fax: 909-923-8628

Page 1 of 1
Lab Job Number B10J031

CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions <input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal	Analyses Requested										Turn Around Time Requested <input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal			
Address <u>17011 Beach Blvd, Suite 900 HB, CA</u>			Report Attention <u>BEC</u>	Phone # <u>(877) 232-4620</u> Fax: #	Sampled By <u>Willy P.</u>	EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals
Project No./ Name	Project Site															

Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks	
		Date	Time																
L64-F1-5.0	B10J031-1	9/20/10	10:10am	Soil									X						
L64-SW1-2.5	-2		10:09am										X						
L64-SW2-2.5	-3		10:11am										X						
L64-SW3-2.5	-4		10:10am										X						
L64-SW4-2.5	-5		10:14am										X						

Relinquished By <u>Bruce</u>	Company <u>BEC</u>	Date <u>9/20/10</u>	Time <u>2:42pm</u>	Received By <u>Jenny</u>	Company <u>ABC Labs</u>	Date <u>9/20/10</u>	Time <u>2:42pm</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

9/23/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 9/22/2010
Lab Job No.: B10I039

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 9/22/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I039
Project:	Sunkist	Date Sampled:	9/22/2010
Project Site:	Sunkist, Ontario	Date Received:	9/22/2010
Matrix:	Soil	Date Extracted:	9/22/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/22/2010
Batch No.:	0922-PCB-S	Date Reported:	9/23/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1			
LAB SAMPLE I.D.		B10I039-1	Method Blank			
CLIENT SAMPLE I.D.		SPC-CC-10				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	145	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limi		65-140				
2,4,5,6-Tetrachloro-m-xylene		102	85			
Decachlorobiphenyl		113	91			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0922-PCB-S

Lab Job No.: B10I039
Lab Sample ID: LCS
Date Analyzed: 9/22/2010
Date Reported: 9/23/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	435	422	87	84	3	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	85				91	93			65-140
DCP	91				86	91			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

9/27/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 9/23/2010
Lab Job No.: B10I041

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 9/23/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0926-VOCS

Lab Job No.: B10I041
 Date Sampled: 9/23/2010
 Date Received: 9/23/2010
 Date Analyzed: 9/26/2010
 Date Reported: 9/27/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			09/26/10	09/26/10	
Dilution Factor			50	1	
Lab Sample I.D.			B10I041-2	Method Blank	
Client Sample I.D.			D-1-1		
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	
Chloromethane	0.0018	0.005	ND	ND	
Vinyl Chloride	0.0018	0.005	ND	ND	
Bromomethane	0.0018	0.005	ND	ND	
Chloroethane	0.0018	0.005	ND	ND	
Trichlorofluoromethane	0.0018	0.005	ND	ND	
1,1-Dichloroethene	0.0018	0.005	ND	ND	
Carbon disulfide	0.0018	0.005	ND	ND	
Methylene chloride	0.0018	0.005	ND	ND	
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	
1,1-Dichloroethane	0.0018	0.005	ND	ND	
2,2-Dichloropropane	0.0018	0.005	ND	ND	
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	
Bromochloromethane	0.0018	0.005	ND	ND	
Chloroform	0.0018	0.005	ND	ND	
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	
Vinyl acetate	0.0018	0.005	ND	ND	
Carbontetrachloride	0.0018	0.005	ND	ND	
1,1-Dichloropropene	0.0018	0.005	ND	ND	
1,2-Dichloroethane	0.0018	0.005	ND	ND	
Benzene	0.001	0.002	ND	ND	
Trichloroethene	0.0018	0.005	ND	ND	
1,2-Dichloropropane	0.0018	0.005	ND	ND	
Methyl methacrylate	0.0018	0.005	ND	ND	
Dibromomethane	0.0018	0.005	ND	ND	
Bromodichloromethane	0.0018	0.005	ND	ND	
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Toluene	0.001	0.002	ND	ND	
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Ethylmethacrylate	0.0018	0.005	ND	ND	
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	
Dibromochloromethane	0.0018	0.005	ND	ND	
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	
Tetrachloroethene	0.0018	0.005	ND	ND	
1,3-Dichloropropane	0.0018	0.005	ND	ND	
Chlorobenzene	0.0018	0.005	ND	ND	

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 0926-VOCS

Lab Job No.: B10I041
 Date Sampled: 9/23/2010
 Date Received: 9/23/2010
 Date Analyzed: 9/26/2010
 Date Reported: 9/27/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		09/26/10	09/26/10		
Dilution Factor		50	1		
Lab Sample I.D.		B10I041-2	Method Blank		
Client Sample I.D.		D-1-1			
Compound	MDL	RL			
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	
Total Xylene	0.002	0.004	ND	ND	
Styrene	0.0018	0.005	ND	ND	
Bromoform	0.0018	0.005	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	0.158	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	
n-Butylbenzene	0.0018	0.005	0.086	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	
Naphthalene	0.0018	0.005	0.393	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	
Acetone	0.025	0.050	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	
MTBE	0.0018	0.005	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	
TAME	0.0018	0.005	ND	ND	
t-Butanol	0.010	0.020	ND	ND	
Ethanol	0.25	0.5	ND	ND	
Surrogate Recovery (%) QC Limit 70-130					
1,2-Dichloroethane-d4			85	92	
Toluene-d8			87	96	
4-Bromofluorobenzene			91	102	

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0926-VOCS

Lab Job No.: B10I041
Lab Sample ID: LCS
Date Analyzed: 9/26/2010
Date Reported: 9/27/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethane	ND	0.020	0.017	0.017	85	85	0	≤20	80-120
Benzene	ND	0.020	0.016	0.017	80	85	6	≤20	80-120
Trichloroethene	ND	0.020	0.016	0.018	80	90	12	≤20	80-120
Toluene	ND	0.020	0.020	0.018	100	90	11	≤20	80-120
Chlorobenzene	ND	0.020	0.019	0.018	95	90	5	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	92				89	95			70-130
Toluene-d8	96				91	85			70-130
4-Bromofluorobenzene	102				92	96			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I041
Project:	Sunkist	Date Sampled:	9/23/2010
Project Site:	Sunkist, Ontario	Date Received:	9/23/2010
Matrix:	Soil	Date Analyzed:	9/25/2010
Batch No.:	AI25-GS (TPH-G)	Date Analyzed:	9/25/2010
Batch No.:	BI25-DS (TPH-D)	Date Reported:	9/27/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%)	Surrogate(%)
		C4-C12	C12-C24	C24-C40	For Gasoline	For Diesel
	RL	5	50	250		
D-1-1	B10I041-2	12.4	13600	ND	94	91

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10I041

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 9/25/2010

Batch No.: AI25-GS (TPH-G)

Date Reported: 9/27/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	0.99	0.88	99	88	12	≤20	80-120
Surrogate (%)	90				89	91			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10I041

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 9/25/2010

Batch No.: BI25-DS (TPH-D)

Date Reported: 9/27/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	425	435	85	87	2	≤20	80-120
Surrogate (%)	90				91	93			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project: Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Extraction Method: EPA 3550B
 Batch No.: 0925-PES-S

Lab Job No.: B10I041
 Date Sampled: 9/23/2010
 Date Received: 9/23/2010
 Date Extracted: 9/25/2010
 Date Analyzed: 9/25/2010
 Date Reported: 9/27/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		5	1			
LAB SAMPLE I.D.		B10I041-2	Method Blank			
CLIENT SAMPLE I.D.		D-1-1				
COMPOUND	RL					
α-BHC	5	ND	ND			
γ-BHC	5	ND	ND			
Heptachlor	5	ND	ND			
Aldrin	5	ND	ND			
β-BHC	5	ND	ND			
δ-BHC	5	ND	ND			
α-Chlordane	5	ND	ND			
γ-Chlordane	5	ND	ND			
Heptachlor Epoxide	5	ND	ND			
Endosulfan I	5	ND	ND			
4,4'-DDE	5	ND	ND			
Dieldrin	5	ND	ND			
Endrin	5	ND	ND			
Endosulfan II	5	ND	ND			
4,4'-DDD	5	ND	ND			
4,4'-DDT	5	ND	ND			
Endrin Aldehyde	5	ND	ND			
Endosulfan Sulfate	5	ND	ND			
Methoxychlor	20	ND	ND			
Endrin Ketone	10	ND	ND			
Technical Chlordane	25	ND	ND			
Toxaphene	100	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		91	110			
Decachlorobiphenyl		86	102			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0925-PES-S

Lab Job No.: B10I041
Lab Sample ID: LCS
Date Analyzed: 9/25/2010
Date Reported: 9/27/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	21.2	23.2	106	116	9	≤30	50-150
Heptachlor	ND	20	22.2	22.1	111	111	0	≤30	50-150
Aldrin	ND	20	23.1	24.2	116	121	5	≤30	50-140
Dieldrin	ND	40	42.2	45.1	106	113	7	≤30	70-130
Endrin	ND	40	43.1	44.2	108	111	3	≤30	70-150
4,4'-DDT	ND	40	45.6	43.2	114	108	5	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	110				95	101			65-140
DCP	102				91	93			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I041
Project:	Sunkist	Date Sampled:	9/23/2010
Project Site:	Sunkist, Ontario	Date Received:	9/23/2010
Matrix:	Soil	Date Extracted:	9/25/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/25/2010
Batch No.:	0925-PCB-S	Date Reported:	9/27/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		3	5	1			
LAB SAMPLE I.D.		B10I041-1	B10I041-2	Method Blank			
CLIENT SAMPLE I.D.		SPC-CC-11	D-1-1				
COMPOUND	RL						
PCB-1016	25	ND	ND	ND			
PCB-1221	50	ND	ND	ND			
PCB-1232	25	ND	ND	ND			
PCB-1242	25	ND	ND	ND			
PCB-1248	25	ND	ND	ND			
PCB-1254	25	3020	207	ND			
PCB-1260	25	ND	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140					
2,4,5,6-Tetrachloro-m-xylene		91	105	110			
Decachlorobiphenyl		86	91	102			

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0925-PCB-S

Lab Job No.: B10I041
Lab Sample ID: LCS
Date Analyzed: 9/25/2010
Date Reported: 9/27/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	422	486	84	97	14	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	110				95	102			65-140
DCP	102				105	96			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I041
Project:	Sunkist	Date Sampled:	9/23/2010
Project Site:	Sunkist, Ontario	Date Received:	9/23/2010
Matrix:	Soil	Date Digested:	9/25/2010
Digestion Method:	3050B	Date Analyzed:	9/25/2010
Batch No.:	0925-MTS	Date Reported:	9/27/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10I041-2			Report Limit
		D-1-1			
Antimony (Sb)	6010B	ND			10
Arsenic (As)	6010B	4.25			0.5
Barium (Ba)	6010B	69.7			5.0
Beryllium (Be)	6010B	ND			2.5
Cadmium (Cd)	6010B	ND			2.5
Chromium (Cr)	6010B	46.5			2.5
Cobalt (Co)	6010B	14.7			2.5
Copper (Cu)	6010B	24.1			2.5
Lead (Pb)	6010B	25.9			2.5
Mercury (Hg)	7471A	ND			0.1
Molybdenum (Mo)	6010B	ND			5.0
Nickel (Ni)	6010B	16.9			2.5
Selenium (Se)	6010B	ND			0.5
Silver (Ag)	6010B	ND			2.5
Thallium (Tl)	6010B	ND			2.5
Vanadium (V)	6010B	50.1			5.0
Zinc (Zn)	6010B	110			2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client: Bowyer Environmental
 Project: Sunkist
 Matrix: Soil
 Batch No.: 0925-MTS

Lab Job No.: B10I041
 Lab Sample ID: LCS
 Date Analyzed: 9/25/2010
 Date Reported: 9/27/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	10	9.56	8.30	96	83	14	≤20	80-120
Arsenic (As)	6010B	ND	10	9.70	10.8	97	108	11	≤20	80-120
Barium (Ba)	6010B	ND	10	9.33	8.30	93	83	12	≤20	80-120
Beryllium (Be)	6010B	ND	10	10.3	9.49	103	95	8	≤20	80-120
Cadmium (Cd)	6010B	ND	10	10.1	11.9	101	119	16	≤20	80-120
Chromium (Cr)	6010B	ND	10	10.1	9.87	101	99	2	≤20	80-120
Cobalt (Co)	6010B	ND	10	10.6	11.2	106	112	6	≤20	80-120
Copper (Cu)	6010B	ND	10	9.16	8.29	92	83	10	≤20	80-120
Lead (Pb)	6010B	ND	10	9.89	8.87	99	89	11	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.85	1.91	93	96	3	≤20	80-120
Molybdenum (Mo)	6010B	ND	10	9.72	8.30	97	83	16	≤20	80-120
Nickel (Ni)	6010B	ND	10	10.0	9.40	100	94	6	≤20	80-120
Selenium (Se)	6010B	ND	10	9.99	8.93	100	89	11	≤20	80-120
Silver (Ag)	6010B	ND	10	9.80	10.5	98	105	7	≤20	80-120
Thallium (Tl)	6010B	ND	10	9.40	8.39	94	84	11	≤20	80-120
Vanadium (V)	6010B	ND	10	9.24	8.87	92	89	4	≤20	80-120
Zinc (Zn)	6010B	ND	10	9.94	8.53	99	85	15	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I041
Project :	Sunkist	Date Sampled:	9/23/2010
Project Site:	Sunkist, Ontario	Date Received:	9/23/2010
Matrix:	Soil	Date Extracted:	9/25/2010
Extraction Method:	3550B	Date Analyzed:	9/26/2010
Batch No.:	0926-SVOCS	Date Reported:	9/27/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		40*		
Lab Sample I.D.		B10I041-2		
Client Sample I.D.		D-1-1		
Compound	RL			
Naphthalene	0.025	ND		
Acenaphthylene	0.025	ND		
Acenaphthene	0.025	ND		
Fluorene	0.025	ND		
Phenanthrene	0.025	ND		
Anthracene	0.025	ND		
Fluoranthene	0.025	ND		
Pyrene	0.025	ND		
Benzo (a) anthracene	0.025	ND		
Chrysene	0.025	ND		
Benzo (b) fluoranthene	0.025	ND		
Benzo (k) fluoranthene	0.025	ND		
Benzo (a) pyrene	0.025	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND		
Dibenzo(a,h)anthracene	0.025	ND		
Benzo(g,h,i)perylene	0.025	ND		
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		78		
2-Fluorobiphenyl		69		
p-Terphenyl-d14		72		

ND: Not Detected (Below RL x Dilution Factor).

*: High Dilution Factor Due To Sample Viscosity.

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10I041
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	9/26/2010
Batch No.:	0926-SVOCS	Date Reported:	9/27/2010

MB/LCS/LCSD Report

Unit: mg/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.22	0.21	88	84	5	≤30	50-150
Acenaphthylene	ND	0.25	0.21	0.20	84	80	5	≤30	50-150
Acenaphthene	ND	0.25	0.23	0.21	92	84	9	≤30	50-150
Fluorene	ND	0.25	0.22	0.19	88	76	15	≤30	50-150
Phenanthrene	ND	0.25	0.24	0.20	96	80	18	≤30	50-150
Anthracene	ND	0.25	0.20	0.21	80	84	5	≤30	50-150
Fluoranthene	ND	0.25	0.19	0.22	76	88	15	≤30	50-150
Pyrene	ND	0.25	0.18	0.17	72	68	6	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.21	0.19	84	76	10	≤30	50-150
Chrysene	ND	0.25	0.22	0.21	88	84	5	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.17	0.18	68	72	6	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.16	0.15	64	60	6	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.15	0.14	60	56	7	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.17	0.16	68	64	6	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.14	0.15	56	60	7	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.14	0.15	56	60	7	≤30	50-150
Nitrobenzene-d5 %Rec.	78				81	75			50-150
2-Fluorobiphenyl %Rec.	85				79	82			50-150
p-Terphenyl-d14 %Rec.	91				81	91			50-150

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name <u>BEC</u>				Sample Receipt Conditions			Analyses Requested										Turn Around Time Requested <input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal					
Address <u>17011 BEACH Blvd. HB CA</u>				<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal																		
Report Attention		Phone # <u>877-232-4620</u> Fax: #		Sampled By <u>HERNANDEZ</u>																		
Project No./ Name		Project Site <u>SUNKIST ONTARIO</u>																				
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<u>02706 SIM PNAS</u>			Remarks	
		Date	Time																			
<u>SPC-CC-11</u>	<u>BIO1041-1</u>	<u>9/23/10</u>	<u>1215</u>	<u>SOIL</u>	<u>ICE</u>	<u>1-G</u>							<u>X</u>									
<u>D-1-1</u>	<u>V-2</u>	<u>9/23/10</u>	<u>1335</u>	<u>SOIL</u>	<u>ICE</u>	<u>1-G</u>	<u>X</u>						<u>XX</u>		<u>X</u>			<u>XX</u>				

Relinquished By	Company <u>BEC</u>	Date <u>9/23/10</u>	Time <u>1438</u>	Received By	Company <u>ABC Labs</u>	Date <u>9/23/10</u>	Time <u>14:38</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

9/27/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 9/24/2010
Lab Job No.: B10I043

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 9/24/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I043
Project:	Sunkist	Date Sampled:	9/24/2010
Project Site:	Sunkist, Ontario	Date Received:	9/24/2010
Matrix:	Soil	Date Extracted:	9/25/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/25/2010
Batch No.:	0925-PCB-S	Date Reported:	9/27/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		3	1			
LAB SAMPLE I.D.		B10I043-1	Method Blank			
CLIENT SAMPLE I.D.		SPC-CC-12				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	2250	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		95	110			
Decachlorobiphenyl		102	102			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0925-PCB-S

Lab Job No.: B10I043
Lab Sample ID: LCS
Date Analyzed: 9/25/2010
Date Reported: 9/27/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	422	486	84	97	14	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	110				95	102			65-140
DCP	102				105	96			65-140

ND: Not Detected (Below RL).



**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761
Tel: 562-413-8343
Tel/ Fax: 909-923-8628

Page 1 of 1
Lab Job Number BIO1043

CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested				
Address <u>17011 Beach Blvd HB, CA</u>		<input checked="" type="checkbox"/> Chilled		EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal			
Report Attention	Phone # <u>877-230-4620</u> Fax: #	Sampled By <u>Willy P.</u>													<input checked="" type="checkbox"/> Intact		<input type="checkbox"/> Sample Seal	
Project No./ Name	Project Site <u>Sunkist</u>																	
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container											Remarks	
		Date	Time															
<u>SPL-6-12</u>	<u>BIO1043-1</u>	<u>9/24/10</u>	<u>12:05</u>	<u>Soil</u>														

Relinquished By <u>Willy P.</u>	Company <u>BEC</u>	Date <u>9/24/10</u>	Time <u>1:35pm</u>	Received By <u>J. Jay</u>	Company <u>ABC Labs</u>	Date <u>9/24/10</u>	Time <u>1:35PM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

9/27/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 9/25/2010
Lab Job No.: B10I045

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 9/25/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I045
Project:	Sunkist	Date Sampled:	9/25/2010
Project Site:	Sunkist, Ontario	Date Received:	9/25/2010
Matrix:	Soil	Date Extracted:	9/25/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/25/2010
Batch No.:	0925-PCB-S	Date Reported:	9/27/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		3	1			
LAB SAMPLE I.D.		B10I045-1	Method Blank			
CLIENT SAMPLE I.D.		SPC-CC-13				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	2000	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		89	110			
Decachlorobiphenyl		93	102			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0925-PCB-S

Lab Job No.: B10I045
Lab Sample ID: LCS
Date Analyzed: 9/25/2010
Date Reported: 9/27/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	422	486	84	97	14	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	110				95	102			65-140
DCP	102				105	96			65-140

ND: Not Detected (Below RL).

CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions <input type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal				Analyses Requested													Turn Around Time Requested <input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal				
Address <u>7022 Beach Blvd HB, Ca.</u>		Report Attention: Phone # <u>1-877-232-4620</u> Fax: # <u>1-877-232-4620</u> Sampled By <u>Brian Bauer</u>				EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals							
Project No./ Name						Project Site <u>Sunkst Ontario</u>																	
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container																	Remarks
		Date	Time																				
<u>SPC-cc-13</u>	<u>B107045-1</u>	<u>9/29/10</u>	<u>11:29am</u>	<u>Soil</u>																			

Relinquished By <u>Brian Bauer</u>	Company <u>BEC</u>	Date <u>9/29/10</u>	Time <u>11:40am</u>	Received By <u>[Signature]</u>	Company <u>HB</u>	Date <u>9/29/10</u>	Time <u>11:40</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code: DW=Drinking Water SL=Sludge Preservative Code IC=Ice SH=NaOH T=Tedlar Air Bag B= Brass Tube E= EnCore
 GW=Ground Water SS=Soil/Sediment HC=HCl ST=Na₂S₂O₃ G=Glass Container P=Plastic Bottle
 WW=Waste Water AR=Air HN=HNO₃ HS=H₂SO₄ ST= Steel Tube V=VOA Vial
 SD=Solid Waste PP=Pure Product

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/1/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 9/27/2010
Lab Job No.: B10I046

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 9/27/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I046
Project:	Sunkist	Date Sampled:	9/27/2010
Project Site:	Sunkist, Ontario	Date Received:	9/27/2010
Matrix:	Soil	Date Extracted:	9/30/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/30/2010
Batch No.:	0930-PCB-S	Date Reported:	10/1/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		5	1			
LAB SAMPLE I.D.		B10I046-1	Method Blank			
CLIENT SAMPLE I.D.		SPC-CC-14				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	1330	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		102	95			
Decachlorobiphenyl		112	105			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0930-PCB-S

Lab Job No.: B10I046
Lab Sample ID: LCS
Date Analyzed: 9/30/2010
Date Reported: 10/1/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	475	495	95	99	4	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	95				89	102			65-140
DCP	105				92	103			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name BEC				Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested		
Address 17011 Beach Blvd H.B. Ca.				<input type="checkbox"/> Chilled <input type="checkbox"/> Intact <input type="checkbox"/> Sample Seal		EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal	
Report Attention	Phone # Fax: # 1-877-232-4620	Sampled By Brian Bauer															Remarks	
Project No./ Name	Project Site Sunkist Ontario																	
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container												
SPC-CC-14	B101046-1	9/27/10	2:01pm	soil														

Relinquished By Brian Bauer	Company BEC	Date 9/27/10	Time 2:35pm	Received By J. Jung	Company ABC Labs	Date 9/27/10	Time 2:35pm	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code: DW=Drinking Water SL=Sludge Preservative Code IC=Ice SH=NaOH * Sample Container Types: T=Tedlar Air Bag B= Brass Tube E= EnCore
 GW=Ground Water SS=Soil/Sediment HC=HCl ST=Na2S2O3 T= Tedlar Air Bag P=Plastic Bottle
 WW=Waste Water AR=Air HN=HNO3 HS=H2SO4 G=Glass Container V=VOA Vial
 SD=Solid Waste PP=Pure Product

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/1/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 9/28/2010
Lab Job No.: B10I049

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 9/28/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I049
Project:	Sunkist	Date Sampled:	9/28/2010
Project Site:	Sunkist, Ontario	Date Received:	9/28/2010
Matrix:	Soil	Date Extracted:	9/30/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/30/2010
Batch No.:	0930-PCB-S	Date Reported:	10/1/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		5	50	1		
LAB SAMPLE I.D.		B10I049-1	B10I049-2	Method Blank		
CLIENT SAMPLE I.D.		SPC-CC-15	SPC-CC-16			
COMPOUND	RL					
PCB-1016	25	ND	ND	ND		
PCB-1221	50	ND	ND	ND		
PCB-1232	25	ND	ND	ND		
PCB-1242	25	ND	ND	ND		
PCB-1248	25	ND	ND	ND		
PCB-1254	25	5410	27200	ND		
PCB-1260	25	ND	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		112	98	95		
Decachlorobiphenyl		135	108	105		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0930-PCB-S

Lab Job No.: B10I049
Lab Sample ID: LCS
Date Analyzed: 9/30/2010
Date Reported: 10/1/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	475	495	95	99	4	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	95				89	102			65-140
DCP	105				92	103			65-140

ND: Not Detected (Below RL).

CHAIN OF CUSTODY

Client Name BEC		Address 17011 Beach BLVD, HB, CA		Report Attention Phone # 877-232-4620 Fax: #		Sampled By Willy P.		Project No./ Name		Project Site Sunkist		Sample Receipt Conditions <input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal		Analyses Requested										Turn Around Time Requested <input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal	
Client Sample ID	Lab Sample ID	Sample Collection Date Time		Matrix Type	Sample Preserve	No., type* & size of container		EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals							Remarks
SPC-CC-15	B102049-1	9/28/10	11:13AM	Soil	2CE	Bx1								X											
SPC-CC-16	↓ -2	9/28/10	11:15AM	Soil	↓	Bx1								X											

Relinquished By Willy P.	Company BEC	Date 9/28/10	Time 3:20PM	Received By [Signature]	Company BEC	Date 9/28/10	Time 3:20PM	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code: DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST=Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/4/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 9/29/2010
Lab Job No.: B10I050

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 9/29/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 1002-VOCS

Lab Job No.: B10I050
 Date Sampled: 9/29/2010
 Date Received: 9/29/2010
 Date Analyzed: 10/2/2010
 Date Reported: 10/4/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			10/02/10	10/02/10	
Dilution Factor			1	1	
Lab Sample I.D.			B10I050-2	Method Blank	
Client Sample I.D.			D-2-1&C-2-1 Comp.		
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	
Chloromethane	0.0018	0.005	ND	ND	
Vinyl Chloride	0.0018	0.005	ND	ND	
Bromomethane	0.0018	0.005	ND	ND	
Chloroethane	0.0018	0.005	ND	ND	
Trichlorofluoromethane	0.0018	0.005	ND	ND	
1,1-Dichloroethene	0.0018	0.005	ND	ND	
Carbon disulfide	0.0018	0.005	ND	ND	
Methylene chloride	0.0018	0.005	ND	ND	
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	
1,1-Dichloroethane	0.0018	0.005	ND	ND	
2,2-Dichloropropane	0.0018	0.005	ND	ND	
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	
Bromochloromethane	0.0018	0.005	ND	ND	
Chloroform	0.0018	0.005	ND	ND	
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	
Vinyl acetate	0.0018	0.005	ND	ND	
Carbontetrachloride	0.0018	0.005	ND	ND	
1,1-Dichloropropene	0.0018	0.005	ND	ND	
1,2-Dichloroethane	0.0018	0.005	ND	ND	
Benzene	0.001	0.002	ND	ND	
Trichloroethene	0.0018	0.005	ND	ND	
1,2-Dichloropropane	0.0018	0.005	ND	ND	
Methyl methacrylate	0.0018	0.005	ND	ND	
Dibromomethane	0.0018	0.005	ND	ND	
Bromodichloromethane	0.0018	0.005	ND	ND	
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Toluene	0.001	0.002	ND	ND	
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Ethylmethacrylate	0.0018	0.005	ND	ND	
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	
Dibromochloromethane	0.0018	0.005	ND	ND	
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	
Tetrachloroethene	0.0018	0.005	ND	ND	
1,3-Dichloropropane	0.0018	0.005	ND	ND	
Chlorobenzene	0.0018	0.005	ND	ND	

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 1002-VOCS

Lab Job No.: B10I050
 Date Sampled: 9/29/2010
 Date Received: 9/29/2010
 Date Analyzed: 10/2/2010
 Date Reported: 10/4/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		10/02/10	10/02/10		
Dilution Factor		1	1		
Lab Sample I.D.		B10I050-2	Method Blank		
Client Sample I.D.		D-2-1&C-2-1 Comp.			
Compound	MDL	RL			
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	
Total Xylene	0.002	0.004	ND	ND	
Styrene	0.0018	0.005	ND	ND	
Bromoform	0.0018	0.005	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	
Acetone	0.025	0.050	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	
MTBE	0.0018	0.005	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	
TAME	0.0018	0.005	ND	ND	
t-Butanol	0.010	0.020	ND	ND	
Ethanol	0.25	0.5	ND	ND	
Surrogate Recovery (%) QC Limit 70-130					
1,2-Dichloroethane-d4			85	92	
Toluene-d8			91	94	
4-Bromofluorobenzene			102	98	

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10I050
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	10/2/2010
Batch No.:	1002-VOCS	Date Reported:	10/4/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.016	0.017	80	85	6	≤20	80-120
Benzene	ND	0.020	0.017	0.019	85	95	11	≤20	80-120
Trichloroethene	ND	0.020	0.017	0.017	85	85	0	≤20	80-120
Toluene	ND	0.020	0.019	0.022	95	110	15	≤20	80-120
Chlorobenzene	ND	0.020	0.019	0.020	95	100	5	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	92				97	90			70-130
Toluene-d8	94				93	96			70-130
4-Bromofluorobenzene	98				92	95			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I050
Project:	Sunkist	Date Sampled:	9/29/2010
Project Site:	Sunkist, Ontario	Date Received:	9/29/2010
Matrix:	Soil	Date Analyzed:	9/30/2010
Batch No.:	AH30-GS (TPH-G)	Date Analyzed:	10/2/2010
Batch No.:	BI02-DS (TPH-D)	Date Reported:	10/4/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%)	Surrogate(%)
		C4-C12	C12-C24	C24-C40	For Gasoline	For Diesel
	RL	0.1	10	50		
D-2-1&C-2-1 Comp.	B10I050-2	ND	ND	ND	95	93

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10I050

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 9/30/2010

Batch No.: AH30-GS (TPH-G)

Date Reported: 10/4/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	1.08	0.88	108	88	20	≤20	80-120
Surrogate (%)	90				89	88			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: BI02-DS (TPH-D)

Lab Job No.: B10I050
Lab Sample ID: LCS
Date Analyzed: 10/2/2010
Date Reported: 10/4/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	435	486	87	97	11	≤20	80-120
Surrogate (%)	95				91	89			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I050
Project:	Sunkist	Date Sampled:	9/29/2010
Project Site:	Sunkist, Ontario	Date Received:	9/29/2010
Matrix:	Soil	Date Extracted:	9/30/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/1/2010
Batch No.:	1001-PES-S	Date Reported:	10/4/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1		
LAB SAMPLE I.D.		B10I050-2	Method Blank		
CLIENT SAMPLE I.D.		D-2-1&C-2-1 Comp.			
COMPOUND	RL				
α-BHC	5	ND	ND		
γ-BHC	5	ND	ND		
Heptachlor	5	ND	ND		
Aldrin	5	ND	ND		
β-BHC	5	ND	ND		
δ-BHC	5	ND	ND		
α-Chlordane	5	ND	ND		
γ-Chlordane	5	ND	ND		
Heptachlor Epoxide	5	ND	ND		
Endosulfan I	5	ND	ND		
4,4'-DDE	5	ND	ND		
Dieldrin	5	ND	ND		
Endrin	5	ND	ND		
Endosulfan II	5	ND	ND		
4,4'-DDD	5	ND	ND		
4,4'-DDT	5	ND	ND		
Endrin Aldehyde	5	ND	ND		
Endosulfan Sulfate	5	ND	ND		
Methoxychlor	20	ND	ND		
Endrin Ketone	10	ND	ND		
Technical Chlordane	25	ND	ND		
Toxaphene	100	ND	ND		
Surrogate Recovery (%) QC Limit		65-140			
2,4,5,6-Tetrachloro-m-xylene		91	91		
Decachlorobiphenyl		89	88		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1001-PES-S

Lab Job No.: B10I050
Lab Sample ID: LCS
Date Analyzed: 10/1/2010
Date Reported: 10/4/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	22.5	25.4	113	127	12	≤30	50-150
Heptachlor	ND	20	26.1	24.5	131	123	6	≤30	50-150
Aldrin	ND	20	23.4	22.5	117	113	4	≤30	50-140
Dieldrin	ND	40	45.8	38.2	115	96	18	≤30	70-130
Endrin	ND	40	38.1	35.1	95	88	8	≤30	70-150
4,4'-DDT	ND	40	35.6	36.2	89	91	2	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	91				68	71			65-140
DCP	88				79	85			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I050
Project:	Sunkist	Date Sampled:	9/29/2010
Project Site:	Sunkist, Ontario	Date Received:	9/29/2010
Matrix:	Soil	Date Extracted:	9/30/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/1/2010
Batch No.:	1001-PCB-S	Date Reported:	10/4/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		10	1	1		
LAB SAMPLE I.D.		B10I050-1	B10I050-2	Method Blank		
CLIENT SAMPLE I.D.		SPC-CC-17	D-2-1&C-2-1 Comp.			
COMPOUND	RL					
PCB-1016	25	ND	ND	ND		
PCB-1221	50	ND	ND	ND		
PCB-1232	25	ND	ND	ND		
PCB-1242	25	ND	ND	ND		
PCB-1248	25	ND	ND	ND		
PCB-1254	25	4540	61.5	ND		
PCB-1260	25	ND	ND	ND		
Surrogate Recovery (%)		QC Limit		65-140		
2,4,5,6-Tetrachloro-m-xylene		91	85	91		
Decachlorobiphenyl		89	79	88		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1001-PCB-S

Lab Job No.: B10I050
Lab Sample ID: LCS
Date Analyzed: 10/1/2010
Date Reported: 10/4/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	475	495	95	99	4	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	91				92	91			65-140
DCP	88				93	89			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I050
Project:	Sunkist	Date Sampled:	9/29/2010
Project Site:	Sunkist, Ontario	Date Received:	9/29/2010
Matrix:	Soil	Date Digested:	9/30/2010
Digestion Method:	3050B	Date Analyzed:	10/2/2010
Batch No.:	1002-MTS	Date Reported:	10/4/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10I050-2			Report Limit
		D-2-1&C-2-1 Comp.			
Antimony (Sb)	6010B	ND			10
Arsenic (As)	6010B	2.54			0.5
Barium (Ba)	6010B	50.1			5.0
Beryllium (Be)	6010B	ND			2.5
Cadmium (Cd)	6010B	ND			2.5
Chromium (Cr)	6010B	33.3			2.5
Cobalt (Co)	6010B	5.14			2.5
Copper (Cu)	6010B	13.8			2.5
Lead (Pb)	6010B	7.28			2.5
Mercury (Hg)	7471A	ND			0.1
Molybdenum (Mo)	6010B	ND			5.0
Nickel (Ni)	6010B	7.67			2.5
Selenium (Se)	6010B	ND			0.5
Silver (Ag)	6010B	ND			2.5
Thallium (Tl)	6010B	ND			2.5
Vanadium (V)	6010B	25.8			5.0
Zinc (Zn)	6010B	42.9			2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10I050
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	10/2/2010
Batch No.:	1002-MTS	Date Reported:	10/4/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	10	9.60	8.82	96	88	8	≤20	80-120
Arsenic (As)	6010B	ND	10	10.1	10.5	101	105	4	≤20	80-120
Barium (Ba)	6010B	ND	10	9.34	8.65	93	87	8	≤20	80-120
Beryllium (Be)	6010B	ND	10	10.0	9.50	100	95	5	≤20	80-120
Cadmium (Cd)	6010B	ND	10	9.85	9.67	99	97	2	≤20	80-120
Chromium (Cr)	6010B	ND	10	9.92	9.60	99	96	3	≤20	80-120
Cobalt (Co)	6010B	ND	10	10.2	10.8	102	108	6	≤20	80-120
Copper (Cu)	6010B	ND	10	9.15	8.42	92	84	8	≤20	80-120
Lead (Pb)	6010B	ND	10	9.84	9.65	98	97	2	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.85	1.91	93	96	3	≤20	80-120
Molybdenum (Mo)	6010B	ND	10	9.77	9.34	98	93	5	≤20	80-120
Nickel (Ni)	6010B	ND	10	10.0	10.0	100	100	0	≤20	80-120
Selenium (Se)	6010B	ND	10	9.92	9.74	99	97	2	≤20	80-120
Silver (Ag)	6010B	ND	10	9.50	8.46	95	85	12	≤20	80-120
Thallium (Tl)	6010B	ND	10	9.55	8.59	96	86	11	≤20	80-120
Vanadium (V)	6010B	ND	10	9.24	8.51	92	85	8	≤20	80-120
Zinc (Zn)	6010B	ND	10	9.91	9.62	99	96	3	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I050
Project :	Sunkist	Date Sampled:	9/29/2010
Project Site:	Sunkist, Ontario	Date Received:	9/29/2010
Matrix:	Soil	Date Extracted:	9/30/2010
Extraction Method:	3550B	Date Analyzed:	10/2/2010
Batch No.:	1002-SVOCS	Date Reported:	10/4/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor		1		
Lab Sample I.D.		B10I050-2		
Client Sample I.D.		D-2-1&C-2-1 Comp.		
Compound	RL			
Naphthalene	0.025	ND		
Acenaphthylene	0.025	ND		
Acenaphthene	0.025	ND		
Fluorene	0.025	ND		
Phenanthrene	0.025	ND		
Anthracene	0.025	ND		
Fluoranthene	0.025	ND		
Pyrene	0.025	ND		
Benzo (a) anthracene	0.025	ND		
Chrysene	0.025	ND		
Benzo (b) fluoranthene	0.025	ND		
Benzo (k) fluoranthene	0.025	ND		
Benzo (a) pyrene	0.025	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND		
Dibenzo(a,h)anthracene	0.025	ND		
Benzo(g,h,i)perylene	0.025	ND		
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		78		
2-Fluorobiphenyl		69		
p-Terphenyl-d14		81		

ND: Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10I050
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	10/2/2010
Batch No.:	1002-SVOCS	Date Reported:	10/4/2010

MB/LCS/LCSD Report

Unit: mg/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.21	0.20	84	80	5	≤30	50-150
Acenaphthylene	ND	0.25	0.19	0.17	76	68	11	≤30	50-150
Acenaphthene	ND	0.25	0.18	0.16	72	64	12	≤30	50-150
Fluorene	ND	0.25	0.19	0.17	76	68	11	≤30	50-150
Phenanthrene	ND	0.25	0.20	0.16	80	64	22	≤30	50-150
Anthracene	ND	0.25	0.21	0.18	84	72	15	≤30	50-150
Fluoranthene	ND	0.25	0.22	0.20	88	80	10	≤30	50-150
Pyrene	ND	0.25	0.19	0.17	76	68	11	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.18	0.15	72	60	18	≤30	50-150
Chrysene	ND	0.25	0.16	0.17	64	68	6	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.16	0.16	64	64	0	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.18	0.16	72	64	12	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.15	0.15	60	60	0	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.16	0.14	64	56	13	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.17	0.18	68	72	6	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.15	0.16	60	64	6	≤30	50-150
Nitrobenzene-d5 %Rec.	78				86	78			50-150
2-Fluorobiphenyl %Rec.	85				88	80			50-150
p-Terphenyl-d14 %Rec.	81				84	82			50-150

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested	
Address 17011 Beach Blvd, HB, CA		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal		EPA8260B (VOCs & Oxygenates) EPA8260B (BTEX & Oxygenates) EPA8021B (BTEX & MTBE) EPA8015M / 8015B (Gasoline) EPA8015M / 8015B (Diesel) EPA8081A (Organochlorine Pesticides) EPA 8082 (PCBs) EPA418.1 (TRPH) EPA8015M (Carbon Chain) EPA 7000s (Metals) CAM 17 Metals <i>PAH by 8270 SIM</i>										<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal	
Report Attention	Phone # 877-232-4620 Fax: #	Sampled By Willy P.													
Project No./ Name		Project Site Sunkist		Remarks											

Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks	
		Date	Time																
SPC-LL-17	B1010507	9/29	12:30	Soil									X						Composite
D-2-1	B1010502 Composite	(2:45	Soil		X						X	X		X		X	X	D-2-1 and
C-2-1	D-2-1 and D-2-1)	2:50	Soil															C-2-1 Composite

Relinquished By Willy P.	Company BEC	Date 9/29/10	Time 4:37	Received By <i>[Signature]</i>	Company ABC Labs	Date 9/29/10	Time 4:37	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/1/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 9/30/2010
Lab Job No.: B10I051

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 9/30/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10I051
Project:	Sunkist	Date Sampled:	9/30/2010
Project Site:	Sunkist, Ontario	Date Received:	9/30/2010
Matrix:	Soil	Date Extracted:	9/30/2010
Extraction Method:	EPA 3550B	Date Analyzed:	9/30/2010
Batch No.:	0930-PCB-S	Date Reported:	10/1/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		10	10	1		
LAB SAMPLE I.D.		B10I051-1	B10I051-2	Method Blank		
CLIENT SAMPLE I.D.		SPC-CC-18	SPC-CC-19			
COMPOUND	RL					
PCB-1016	25	ND	ND	ND		
PCB-1221	50	ND	ND	ND		
PCB-1232	25	ND	ND	ND		
PCB-1242	25	ND	ND	ND		
PCB-1248	25	ND	ND	ND		
PCB-1254	25	4790	1960	ND		
PCB-1260	25	ND	ND	ND		
Surrogate Recovery (%)		QC Limit		65-140		
2,4,5,6-Tetrachloro-m-xylene		91	87	91		
Decachlorobiphenyl		89	83	89		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0930-PCB-S

Lab Job No.: B10I051
Lab Sample ID: LCS
Date Analyzed: 9/30/2010
Date Reported: 10/1/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	475	495	95	99	4	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	91				92	88			65-140
DCP	89				89	90			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions <input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal	Analyses Requested												Turn Around Time Requested <input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal														
Address <u>17011 Beach BLVD, HB, CA</u>			<table border="1"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B(BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td></td> <td></td> <td></td> </tr> </table>													EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals			
EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)															EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals					
Report Attention	Phone # <u>877-232-4620</u> Fax: #	Sampled By <u>Willy P.</u>																											
Project No./ Name	Project Site <u>Sunkist</u>																												

Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	Analyses Requested												Remarks							
		Date	Time				EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals									
<u>SPC-CC-18</u>	<u>B10I051-1</u>	<u>9/30/10</u>	<u>12:00</u>	<u>Soil</u>																						
<u>SPC-CC-19</u>	<u>V-2</u>	<u>9/30/10</u>	<u>12:03</u>	<u>Soil</u>																						

Relinquished By <u>Willy Parros</u>	Company <u>BEC</u>	Date <u>9/30/10</u>	Time <u>1:00 PM</u>	Received By <u>J. Fray</u>	Company <u>ABC Labs</u>	Date <u>9/30/10</u>	Time <u>1:00 PM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/6/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/1/2010
Lab Job No.: B10J001

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/1/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J001
Project:	Sunkist	Date Sampled:	10/1/2010
Project Site:	Sunkist, Ontario	Date Received:	10/1/2010
Matrix:	Soil	Date Extracted:	10/4/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/5/2010
Batch No.:	1005-PCB-S1	Date Reported:	10/6/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		5	5	1		
LAB SAMPLE I.D.		B10J001-1	B10J001-2	Method Blank		
CLIENT SAMPLE I.D.		SPC-CC-20	SPC-CC-21			
COMPOUND	RL					
PCB-1016	25	ND	ND	ND		
PCB-1221	50	ND	ND	ND		
PCB-1232	25	ND	ND	ND		
PCB-1242	25	ND	ND	ND		
PCB-1248	25	ND	ND	ND		
PCB-1254	25	992	3670	ND		
PCB-1260	25	ND	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		91	85	85		
Decachlorobiphenyl		89	79	78		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1005-PCB-S1

Lab Job No.: B10J001
Lab Sample ID: LCS
Date Analyzed: 10/5/2010
Date Reported: 10/6/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	476	417	95	83	13	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	85				90	86			65-140
DCP	78				84	92			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested															
Address <u>17011 Beach Blvd. H.B., Ca.</u>		<input checked="" type="checkbox"/> Chilled		<table border="1"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B(BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals					<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal
EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)											EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals									
Report Attention	Phone # Fax: # <u>1-877-232-4626</u>	<input type="checkbox"/> Intact												Remarks															
Project No./ Name	Project Site <u>Sunkist Ontario</u>	<input type="checkbox"/> Sample Seal																											
Client Sample ID	Lab Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container																							
<u>SPC-CC-20</u>	<u>B10J001-1</u>	<u>10/2/10</u>	<u>11:32pm</u>	<u>Soil</u>																									
<u>SPC-CC-21</u>	<u>V-2</u>	<u>10/3/10</u>	<u>11:33pm</u>	<u>Soil</u>																									
Relinquished By <u>Brian Bauer</u>		Company <u>BEC</u>		Date <u>10/1/10</u>		Time <u>11:56am</u>		Received By <u>S. Jey</u>		Company <u>ABC Labs</u>		Date <u>10/1/10</u>		Time <u>11:56am</u>		Note: Samples are discarded 30 days after results are reported unless other arrangements are made.													
Relinquished By		Company		Date		Time		Received By		Company		Date		Time															

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/6/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/2/2010
Lab Job No.: B10J002

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/2/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J002
Project:	Sunkist	Date Sampled:	10/2/2010
Project Site:	Sunkist, Ontario	Date Received:	10/2/2010
Matrix:	Soil	Date Extracted:	10/4/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/5/2010
Batch No.:	1005-PCB-S1	Date Reported:	10/6/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		5	5	1			
LAB SAMPLE I.D.		B10J002-1	B10J002-2	Method Blank			
CLIENT SAMPLE I.D.		SPC-CC-22	SPC-CC-23				
COMPOUND	RL						
PCB-1016	25	ND	ND	ND			
PCB-1221	50	ND	ND	ND			
PCB-1232	25	ND	ND	ND			
PCB-1242	25	ND	ND	ND			
PCB-1248	25	ND	ND	ND			
PCB-1254	25	4030	2510	ND			
PCB-1260	25	ND	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140					
2,4,5,6-Tetrachloro-m-xylene		110	112	85			
Decachlorobiphenyl		121	105	78			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1005-PCB-S1

Lab Job No.: B10J002
Lab Sample ID: LCS
Date Analyzed: 10/5/2010
Date Reported: 10/6/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	476	417	95	83	13	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	85				90	86			65-140
DCP	78				84	92			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name <u>BEC</u>			Sample Receipt Conditions		Analyses Requested												Turn Around Time Requested					
Address <u>17011 Beach Blvd, HB, CA</u>			<input checked="" type="checkbox"/> Chilled		EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal						
Report Attention	Phone # <u>877-232-4620</u> Fax: #	Sampled By <u>Willy P.</u>	<input checked="" type="checkbox"/> Intact													<input type="checkbox"/> Sample Seal						
Project No./ Name	Project Site		Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container													Remarks
					Date	Time																
	<u>SPL-CC-22</u>	<u>B10J002-1</u>	<u>10/2/10</u>	<u>11:32AM</u>	<u>Soil</u>																	
	<u>SPL-CC-23</u>	<u>✓ -2</u>	<u>10/2/10</u>	<u>11:34AM</u>	<u>soil</u>																	
Relinquished By <u>Willy P.</u>			Company <u>BEC</u>	Date <u>10/2/10</u>	Time <u>12:15</u>	Received By <u>[Signature]</u>			Company <u>ABC</u>	Date <u>10/2/10</u>	Time <u>12:15</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.										
Relinquished By			Company	Date	Time	Received By			Company	Date	Time											

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/6/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/4/2010
Lab Job No.: B10J003

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/4/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J003
Project:	Sunkist	Date Sampled:	10/4/2010
Project Site:	Sunkist, Ontario	Date Received:	10/4/2010
Matrix:	Soil	Date Extracted:	10/4/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/5/2010
Batch No.:	1005-PCB-S1	Date Reported:	10/6/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		2.94	1			
LAB SAMPLE I.D.		B10J003-1	Method Blank			
CLIENT SAMPLE I.D.		SPC-CC-24				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	341	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		89	85			
Decachlorobiphenyl		116	78			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1005-PCB-S1

Lab Job No.: B10J003
Lab Sample ID: LCS
Date Analyzed: 10/5/2010
Date Reported: 10/6/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	476	417	95	83	13	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	85				90	86			65-140
DCP	78				84	92			65-140

ND: Not Detected (Below RL).



**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761
Tel: 562-413-8343
Tel/ Fax: 909-923-8628

Page 2 of 2
Lab Job Number B10J003

CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested																																																						
Address <u>17012 Beach Blvd. H.B. Ca. 92647</u>		<input checked="" type="checkbox"/> Chilled		<table border="1"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B(BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> </tr> <tr> <td></td> </tr> </table>										EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals														<input checked="" type="checkbox"/>																														<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal
EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)											EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals																																																
																<input checked="" type="checkbox"/>																																																				
Report Attention <u>BEC</u>	Phone # Fax: # <u>1-877-232-4800</u>	<input type="checkbox"/> Intact		Remarks																																																																
Project No./ Name	Project Site <u>Sunkist Ontario</u>	<input type="checkbox"/> Sample Seal																																																																		
Client Sample ID	Lab Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container																																																														
<u>SPC-CC-24</u>		<u>10/4/10</u>	<u>9:45 am</u>	<u>Soil</u>																																																																

Relinquished By <u>Brian Bauer</u>	Company <u>BEC</u>	Date <u>10/4/10</u>	Time <u>9:56 am</u>	Received By <u>J. Jiang</u>	Company <u>ABC Labs</u>	Date <u>10/4/10</u>	Time <u>9:56 am</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/6/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/5/2010
Lab Job No.: B10J010

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/5/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J010
Project:	Sunkist	Date Sampled:	10/5/2010
Project Site:	Sunkist, Ontario	Date Received:	10/5/2010
Matrix:	Soil	Date Extracted:	10/5/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/5/2010
Batch No.:	1005-PCB-S2	Date Reported:	10/6/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		5	5	1			
LAB SAMPLE I.D.		B10J010-1	B10J010-2	Method Blank			
CLIENT SAMPLE I.D.		SPC-CC-25	SPC-CC-26				
COMPOUND	RL						
PCB-1016	25	ND	ND	ND			
PCB-1221	50	ND	ND	ND			
PCB-1232	25	ND	ND	ND			
PCB-1242	25	ND	ND	ND			
PCB-1248	25	ND	ND	ND			
PCB-1254	25	1260	1870	ND			
PCB-1260	25	ND	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140					
2,4,5,6-Tetrachloro-m-xylene		91	112	110			
Decachlorobiphenyl		115	125	102			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1005-PCB-S2

Lab Job No.: B10J010
Lab Sample ID: LCS
Date Analyzed: 10/5/2010
Date Reported: 10/6/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	446	471	89	94	5	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	110				120	108			65-140
DCP	102				125	113			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested			
Address 17011 Beach Blvd, HB, CA		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal		EPA8260B (VOCs & Oxygenates) EPA8260B(BTEX & Oxygenates) EPA8021B (BTEX & MTBE) EPA8015M / 8015B (Gasoline) EPA8015M / 8015B (Diesel) EPA8081A (Organochlorine Pesticides) EPA 8082 (PCBs) EPA418.1 (TRPH) EPA8015M (Carbon Chain) EPA 7000s (Metals) CAM 17 Metals										<input checked="" type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal			
Report Attention	Phone # 877-232-4260 Fax: #	Sampled By Willy P.															
Project No./ Name	Project Site Sunkist																
Client Sample ID	Lab Sample ID	Date	Time	Matrix Type	Sample Preserve	No., type* & size of container											Remarks
SPC-CC-25	B10J010-1	10/5/10	1:27	Soil	ice	ST											
SPC-CC-26	↓ -2	↓	1:28	↓													

Relinquished By Willy Parrish	Company BEC	Date 10/5/10	Time 14:32	Received By Willy	Company ABC	Date 10/5/10	Time 14:32	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.	
Relinquished By	Company	Date	Time	Received By	Company	Date	Time		

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/7/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/5/2010
Lab Job No.: B10J011

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/5/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J011
Project:	Sunkist	Date Sampled:	10/5/2010
Project Site:	Sunkist, Ontario	Date Received:	10/5/2010
Matrix:	Soil	Date Extracted:	10/6/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/6/2010
Batch No.:	1006-PCB-S	Date Reported:	10/7/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B10J011-1	B10J011-2	B10J011-3	B10J011-4	B10J011-5
CLIENT SAMPLE I.D.		SP-ASP-3	SP-ASP-4	SP-ASP-5	SP-ASP-6	SPC-ASP-7
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	60.1	94.1	108	174	85.2
PCB-1260	25	ND	ND	ND	ND	ND
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		91	112	102	94	90
Decachlorobiphenyl		115	125	111	105	95

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J011
Project:	Sunkist	Date Sampled:	10/5/2010
Project Site:	Sunkist, Ontario	Date Received:	10/5/2010
Matrix:	Soil	Date Extracted:	10/6/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/6/2010
Batch No.:	1006-PCB-S	Date Reported:	10/7/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B10J011-6	B10J011-7	B10J011-8	B10J011-9	B10J011-10
CLIENT SAMPLE I.D.		SP-ASP-8	SP-ASP-9	SP-ASP-10	SP-ASP-11	SPC-ASP-12
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	122	ND	132	ND	170
PCB-1260	25	ND	ND	ND	ND	ND
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		84	91	91	79	101
Decachlorobiphenyl		95	75	85	81	92

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J011
Project:	Sunkist	Date Sampled:	10/5/2010
Project Site:	Sunkist, Ontario	Date Received:	10/5/2010
Matrix:	Soil	Date Extracted:	10/6/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/6/2010
Batch No.:	1006-PCB-S	Date Reported:	10/7/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1				
LAB SAMPLE I.D.		Method Blank				
CLIENT SAMPLE I.D.						
COMPOUND	RL					
PCB-1016	25	ND				
PCB-1221	50	ND				
PCB-1232	25	ND				
PCB-1242	25	ND				
PCB-1248	25	ND				
PCB-1254	25	ND				
PCB-1260	25	ND				
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		91				
Decachlorobiphenyl		89				

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1006-PCB-S

Lab Job No.: B10J011
Lab Sample ID: LCS
Date Analyzed: 10/6/2010
Date Reported: 10/7/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	477	486	95	97	2	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	91				91	89			65-140
DCP	89				85	93			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested	
Address 17011 Beach BLVD, HB, CA		<input checked="" type="checkbox"/> Chilled		<input type="checkbox"/> EPA8260B (VOCs & Oxygenates) <input type="checkbox"/> EPA8260B (BTEX & Oxygenates) <input type="checkbox"/> EPA8021B (BTEX & MTBE) <input type="checkbox"/> EPA8015M / 8015B (Gasoline) <input type="checkbox"/> EPA8015M / 8015B (Diesel) <input type="checkbox"/> EPA8081A (Organochlorine Pesticides) <input type="checkbox"/> EPA 8082 (PCBs) <input type="checkbox"/> EPA418.1 (TRPH) <input type="checkbox"/> EPA8015M (Carbon Chain) <input type="checkbox"/> EPA 7000s (Metals) <input type="checkbox"/> CAM 17 Metals										<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal	
Report Attention	Phone # 877-232-4260 Fax: #	Sampled By Willy P.												<input checked="" type="checkbox"/> Intact	
Project No./ Name	Project Site Sunkist														

Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks
		Date	Time															
SP-ASP-3	B10J011-1	10/5/10	9:35	Soil									X					
SP-ASP-4	1-2		9:40										X					
SP-ASP-5	3		9:50										X					
SP-ASP-6	4		9:55										X					
SP-ASP-7	5		10:00										X					
SP-ASP-8	6		11:20										X					
SP-ASP-9	7		11:30										X					
SP-ASP-10	8		11:40										X					
SP-ASP-11	9		11:55										X					
SP-ASP-12	10		12:10										X					

Relinquished By Willy Parrish	Company BEC	Date 10/5/10	Time 14:33	Received By W	Company ABC	Date 10/5/10	Time 14:33	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/6/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/6/2010
Lab Job No.: B10J013

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/6/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J013
Project:	Sunkist	Date Sampled:	10/6/2010
Project Site:	Sunkist, Ontario	Date Received:	10/6/2010
Matrix:	Soil	Date Extracted:	10/6/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/6/2010
Batch No.:	1006-PCB-S	Date Reported:	10/7/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		5	5	1		
LAB SAMPLE I.D.		B10J013-1	B10J013-2	Method Blank		
CLIENT SAMPLE I.D.		SPC-CC-27	SPC-CC-28			
COMPOUND	RL					
PCB-1016	25	ND	ND	ND		
PCB-1221	50	ND	ND	ND		
PCB-1232	25	ND	ND	ND		
PCB-1242	25	ND	ND	ND		
PCB-1248	25	ND	ND	ND		
PCB-1254	25	389	279	ND		
PCB-1260	25	ND	ND	ND		
Surrogate Recovery (%)		QC Limit: 65-140				
2,4,5,6-Tetrachloro-m-xylene		79	81	91		
Decachlorobiphenyl		86	93	89		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1006-PCB-S

Lab Job No.: B10J013
Lab Sample ID: LCS
Date Analyzed: 10/6/2010
Date Reported: 10/7/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	477	486	95	97	2	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	91				91	89			65-140
DCP	89				85	93			65-140



**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761
Tel: 562-413-8343
Tel/ Fax: 909-923-8628

Page 1 of 1
Lab Job Number B10J013

CHAIN OF CUSTODY

Client Name <u>BEC</u>			Sample Receipt Conditions		Analyses Requested												Turn Around Time Requested		
Address <u>17011 Beach BLVD, HB, CA</u>			<input checked="" type="checkbox"/> Chilled		EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<input checked="" type="checkbox"/> Rush 8 12 <u>24</u> 48 Hours			
Report Attention	Phone # <u>877-232-4620</u>	Fax: #	Sampled By <u>Willy P.</u>													<input checked="" type="checkbox"/> Intact		<input type="checkbox"/> Normal	
Project No./ Name	Project Site <u>Sunkist</u>		<input type="checkbox"/> Sample Seal																
Client Sample ID	Lab Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container													
<u>SPC-CC-27</u>	<u>B10J013-1</u>	<u>10/6/10</u>	<u>2:40PM</u>	<u>Soil</u>															
<u>SPC-CC-28</u>	<u>V-2</u>	<u>↓</u>	<u>2:44PM</u>	<u>↓</u>															
Relinquished By <u>Willy Parrish</u>	Company <u>BEC</u>	Date <u>10/6/10</u>	Time <u>3:00pm</u>	Received By <u>J. Jiang</u>	Company <u>ABC Labs</u>	Date <u>10/6/10</u>	Time <u>2:20PM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.											
Relinquished By	Company	Date	Time	Received By	Company	Date	Time												

Matrix Code:	DW=Drinking Water	SL=Sludge	Preservative Code	IC=Ice	SH=NaOH	* Sample Container Types:
	GW=Ground Water	SS=Soil/Sediment		HC=HCl	ST=Na2S2O3	T=Tedlar Air Bag
	WW=Waste Water	AR=Air		HN=HNO3	HS=H2SO4	G=Glass Container
	SD=Solid Waste	PP=Pure Product				ST= Steel Tube
						B= Brass Tube
						P=Plastic Bottle
						V=VOA Vial
						E= EnCore

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/11/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/8/2010
Lab Job No.: B10J016

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/8/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J016
Project:	Sunkist	Date Sampled:	10/8/2010
Project Site:	Sunkist, Ontario	Date Received:	10/8/2010
Matrix:	Soil	Date Extracted:	10/9/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/9/2010
Batch No.:	1009-PCB-S	Date Reported:	10/11/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		5	1	1		
LAB SAMPLE I.D.		B10J016-1	B10J016-2	Method Blank		
CLIENT SAMPLE I.D.		SPC-CC-29	SPC-CC-30			
COMPOUND	RL					
PCB-1016	25	ND	ND	ND		
PCB-1221	50	ND	ND	ND		
PCB-1232	25	ND	ND	ND		
PCB-1242	25	ND	ND	ND		
PCB-1248	25	ND	ND	ND		
PCB-1254	25	16100	321	ND		
PCB-1260	25	ND	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		102	91	105		
Decachlorobiphenyl		114	105	96		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1009-PCB-S

Lab Job No.: B10J016
Lab Sample ID: LCS
Date Analyzed: 10/9/2010
Date Reported: 10/11/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	484	485	97	97	0	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	105				102	91			65-140
DCP	96				115	95			65-140

ND: Not Detected (Below RL).



**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761
Tel: 562-413-8343
Tel/ Fax: 909-923-8628

Page 1 of 2
Lab Job Number B10J016

CHAIN OF CUSTODY

Client Name <u>BEC</u>				Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested												
Address <u>17011 Beach Blvd, H.B. Ca.</u>				<input checked="" type="checkbox"/> Chilled		EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal											
Report Attention <u>BEC</u>	Phone # Fax: <u>#1877-232-4620</u>	Sampled By <u>Brian Bauer</u>		<input checked="" type="checkbox"/> Intact													<input type="checkbox"/> Sample Seal											
Project No./ Name	Project Site <u>Sunkist Ontario</u>																											
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container												Remarks										
		Date	Time																									
<u>SPC-CC-29</u>	<u>B10J016-1</u>	<u>10/8/10</u>	<u>1:30pm</u>	<u>soil</u>																								
<u>SPC-CC-30</u>	<u>✓ -2</u>	<u>10/8/10</u>	<u>1:36pm</u>	<u>soil</u>																								
Relinquished By <u>Brian Bauer</u>		Company <u>BEC</u>	Date <u>10/8/10</u>	Time <u>2:03pm</u>	Received By <u>[Signature]</u>	Company <u>ABC Labs</u>	Date <u>10/8/10</u>	Time <u>2:03PM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.																			
Relinquished By		Company	Date	Time	Received By	Company	Date	Time																				

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/11/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/9/2010
Lab Job No.: B10J020

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/9/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J020
Project:	Sunkist	Date Sampled:	10/9/2010
Project Site:	Sunkist, Ontario	Date Received:	10/9/2010
Matrix:	Soil	Date Extracted:	10/9/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/9/2010
Batch No.:	1009-PCB-S	Date Reported:	10/11/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		5	1			
LAB SAMPLE I.D.		B10J020-1	Method Blank			
CLIENT SAMPLE I.D.		SPC-CC-31				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	8050	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		94	105			
Decachlorobiphenyl		93	96			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1009-PCB-S

Lab Job No.: B10J020
Lab Sample ID: LCS
Date Analyzed: 10/9/2010
Date Reported: 10/11/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	484	485	97	97	0	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	105				102	91			65-140
DCP	96				115	95			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested				
Address 17011 Beach Blvd HB, CA		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal												<input checked="" type="checkbox"/> Rush 8 12 <u>24</u> 48 Hours <input type="checkbox"/> Normal				
Report Attention	Phone # 877-232-4620	Sampled By Willy P.																
Project No./ Name	Project Site Sunkist																	
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks
		Date	Time															
SPC-CC-31	B105020-1	10/9/10	12:42	Soil									X					

Relinquished By Willy Parrish	Company BEC	Date 10/9/10	Time 1:05	Received By J. Jones	Company ABC Labs	Date 10/9/10	Time 1:05 PM	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/12/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/11/2010
Lab Job No.: B10J021

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/11/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J021
Project:	Sunkist	Date Sampled:	10/11/2010
Project Site:	Sunkist, Ontario	Date Received:	10/11/2010
Matrix:	Soil	Date Extracted:	10/11/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/12/2010
Batch No.:	1012-PCB-S	Date Reported:	10/12/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		5	1			
LAB SAMPLE I.D.		B10J021-3	Method Blank			
CLIENT SAMPLE I.D.		SPC-CC-32				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	5990	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		81	90			
Decachlorobiphenyl		79	85			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1012-PCB-S

Lab Job No.: B10J021
Lab Sample ID: LCS
Date Analyzed: 10/12/2010
Date Reported: 10/12/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	485	478	97	96	1	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	90				91	81			65-140
DCP	85				84	86			65-140

ND: Not Detected (Below RL).



**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761
Tel: 562-413-8343
Tel/ Fax: 909-923-8628

CHAIN OF CUSTODY

Lab Job Number B10J021

Client Name <u>BEC</u>				Sample Receipt Conditions <input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal			Analyses Requested										Turn Around Time Requested <input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal														
Address <u>1021 Beach Blvd. H.B. Ca.</u>							EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	SAM 17 Metals	<u>8270C SIM PNAs</u>			Remarks										
Report Attention <u>BEC</u>		Phone # <u>877-232-4620</u>		Sampled By <u>Brian Bauer</u>																											
Project No./ Name		Project Site <u>Sunkist Ontario</u>																													
Client Sample ID	Lab Sample ID	Date	Time	Matrix Type	Sample Preserve	No., type* & size of container																									
<u>E-3-1</u>	<u>B10J021-1</u>	<u>10/11/10</u>	<u>10:27am</u>	<u>soil</u>			X					X	X		X	X	X	X				<u>normal</u>									
<u>E-3-2</u>	<u>↓ -2</u>	<u>10/11/10</u>	<u>10:29am</u>	<u>soil</u>			X					X	X		X	X	X	X				<u>normal</u>									
<u>SPC-CC-32</u>	<u>↓ -3</u>	<u>10/11/10</u>	<u>2:05pm</u>	<u>soil</u>								X										<u>rush</u>									

Relinquished By <u>Brian Bauer</u>	Company <u>BEC</u>	Date <u>10/11/10</u>	Time <u>3:57pm</u>	Received By <u>J. Jones</u>	Company <u>ABC Labs</u>	Date <u>10/11/10</u>	Time <u>3:57PM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code: DW=Drinking Water SL=Sludge Preservative Code IC=Ice SH=NaOH * Sample Container Types: T=Tedlar Air Bag B= Brass Tube E= EnCore
 GW=Ground Water SS=Soil/Sediment HC=HCl ST=Na2S2O3 T=Teclor Air Bag P=Plastic Bottle
 WW=Waste Water AR=Air HN=HNO3 HS=H2SO4 G=Glass Container V=VOA Vial
 SD=Solid Waste PP=Pure Product ST= Steel Tube

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/13/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/11/2010
Lab Job No.: B10J021A

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/11/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 1012-VOCS

Lab Job No.: B10J021A
 Date Sampled: 10/11/2010
 Date Received: 10/11/2010
 Date Analyzed: 10/12/2010
 Date Reported: 10/13/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			10/12/10	10/12/10	10/12/10	
Dilution Factor			1	1	1	
Lab Sample I.D.			B10J021-1	B10J021-2	Method Blank	
Client Sample I.D.			E-3-1	E-3-2		
Compound	MDL	RL				
Dichlorodifluoromethane	0.0018	0.005	ND	ND	ND	
Chloromethane	0.0018	0.005	ND	ND	ND	
Vinyl Chloride	0.0018	0.005	ND	ND	ND	
Bromomethane	0.0018	0.005	ND	ND	ND	
Chloroethane	0.0018	0.005	ND	ND	ND	
Trichlorofluoromethane	0.0018	0.005	ND	ND	ND	
1,1-Dichloroethene	0.0018	0.005	ND	ND	ND	
Carbon disulfide	0.0018	0.005	ND	ND	ND	
Methylene chloride	0.0018	0.005	ND	ND	ND	
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	ND	
1,1-Dichloroethane	0.0018	0.005	ND	ND	ND	
2,2-Dichloropropane	0.0018	0.005	ND	ND	ND	
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	ND	
Bromochloromethane	0.0018	0.005	ND	ND	ND	
Chloroform	0.0018	0.005	ND	ND	ND	
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	ND	
Vinyl acetate	0.0018	0.005	ND	ND	ND	
Carbontetrachloride	0.0018	0.005	ND	ND	ND	
1,1-Dichloropropene	0.0018	0.005	ND	ND	ND	
1,2-Dichloroethane	0.0018	0.005	ND	ND	ND	
Benzene	0.001	0.002	ND	ND	ND	
Trichloroethene	0.0018	0.005	ND	ND	ND	
1,2-Dichloropropane	0.0018	0.005	ND	ND	ND	
Methyl methacrylate	0.0018	0.005	ND	ND	ND	
Dibromomethane	0.0018	0.005	ND	ND	ND	
Bromodichloromethane	0.0018	0.005	ND	ND	ND	
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	ND	
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	ND	
Toluene	0.001	0.002	ND	ND	ND	
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	ND	
Ethylmethacrylate	0.0018	0.005	ND	ND	ND	
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	ND	
Dibromochloromethane	0.0018	0.005	ND	ND	ND	
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	ND	
Tetrachloroethene	0.0018	0.005	ND	ND	ND	
1,3-Dichloropropane	0.0018	0.005	ND	ND	ND	
Chlorobenzene	0.0018	0.005	ND	ND	ND	

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 1012-VOCS

Lab Job No.: B10J021A
 Date Sampled: 10/11/2010
 Date Received: 10/11/2010
 Date Analyzed: 10/12/2010
 Date Reported: 10/13/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			10/12/10	10/12/10	10/12/10	
Dilution Factor			1	1	1	
Lab Sample I.D.			B10J021-1	B10J021-2	Method Blank	
Client Sample I.D.			E-3-1	E-3-2		
Compound	MDL	RL				
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	ND	
Total Xylene	0.002	0.004	ND	ND	ND	
Styrene	0.0018	0.005	ND	ND	ND	
Bromoform	0.0018	0.005	ND	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	ND	
Acetone	0.025	0.050	ND	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	ND	
MTBE	0.0018	0.005	ND	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	ND	
TAME	0.0018	0.005	ND	ND	ND	
t-Butanol	0.010	0.020	ND	ND	ND	
Ethanol	0.25	0.5	ND	ND	ND	
Surrogate Recovery (%) QC Limit 70-130						
1,2-Dichloroethane-d4			89	92	95	
Toluene-d8			81	90	91	
4-Bromofluorobenzene			92	93	96	

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10J021A
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	10/12/2010
Batch No.:	1012-VOCS	Date Reported:	10/13/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.021	0.020	105	100	5	≤20	80-120
Benzene	ND	0.020	0.022	0.021	110	105	5	≤20	80-120
Trichloroethene	ND	0.020	0.019	0.020	95	100	5	≤20	80-120
Toluene	ND	0.020	0.020	0.023	100	115	14	≤20	80-120
Chlorobenzene	ND	0.020	0.018	0.021	90	105	15	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	95				102	105			70-130
Toluene-d8	91				98	98			70-130
4-Bromofluorobenzene	96				112	115			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J021A
Project:	Sunkist	Date Sampled:	10/11/2010
Project Site:	Sunkist, Ontario	Date Received:	10/11/2010
Matrix:	Soil	Date Analyzed:	10/12/2010
Batch No.:	AJ12-GS (TPH-G)	Date Analyzed:	10/12/2010
Batch No.:	BJ12-DS (TPH-D)	Date Reported:	10/13/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%)	Surrogate(%)
		C4-C12	C12-C24	C24-C40	For Gasoline	For Diesel
	RL	0.1	10	50		
E-3-1	B10J021-1	ND	ND	ND	89	80
E-3-2	B10J021-2	ND	ND	ND	81	78

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10J021A
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	10/12/2010
Batch No.:	AJ12-GS (TPH-G)	Date Reported:	10/13/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	0.95	1.12	95	112	16	≤20	80-120
Surrogate (%)	90				75	78			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10J021A

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 10/12/2010

Batch No.: BJ12-DS (TPH-D)

Date Reported: 10/13/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	426	435	85	87	2	≤20	80-120
Surrogate (%)	79				82	85			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J021A
Project:	Sunkist	Date Sampled:	10/11/2010
Project Site:	Sunkist, Ontario	Date Received:	10/11/2010
Matrix:	Soil	Date Extracted:	10/11/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/12/2010
Batch No.:	1012-PES-S	Date Reported:	10/13/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1	1		
LAB SAMPLE I.D.		B10J021-1	B10J021-2	Method Blank		
CLIENT SAMPLE I.D.		E-3-1	E-3-2			
COMPOUND	RL					
α-BHC	5	ND	ND	ND		
γ-BHC	5	ND	ND	ND		
Heptachlor	5	ND	ND	ND		
Aldrin	5	ND	ND	ND		
β-BHC	5	ND	ND	ND		
δ-BHC	5	ND	ND	ND		
α-Chlordane	5	ND	ND	ND		
γ-Chlordane	5	ND	ND	ND		
Heptachlor Epoxide	5	ND	ND	ND		
Endosulfan I	5	ND	ND	ND		
4,4'-DDE	5	ND	ND	ND		
Dieldrin	5	ND	ND	ND		
Endrin	5	ND	ND	ND		
Endosulfan II	5	ND	ND	ND		
4,4'-DDD	5	ND	ND	ND		
4,4'-DDT	5	ND	ND	ND		
Endrin Aldehyde	5	ND	ND	ND		
Endosulfan Sulfate	5	ND	ND	ND		
Methoxychlor	20	ND	ND	ND		
Endrin Ketone	10	ND	ND	ND		
Technical Chlordane	25	ND	ND	ND		
Toxaphene	100	ND	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		67	75	90		
Decachlorobiphenyl		78	94	85		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
 Project: Sunkist
 Matrix: Soil
 Batch No.: 1012-PES-S

Lab Job No.: B10J021A
 Lab Sample ID: LCS
 Date Analyzed: 10/12/2010
 Date Reported: 10/13/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ-BHC	ND	20	21.2	20.5	106	103	3	≤30	50-150
Heptachlor	ND	20	20.1	21.2	101	106	5	≤30	50-150
Aldrin	ND	20	22.5	23.4	113	117	4	≤30	50-140
Dieldrin	ND	40	42.1	40.2	105	101	5	≤30	70-130
Endrin	ND	40	37.6	34.5	94	86	9	≤30	70-150
4,4'-DDT	ND	40	36.8	34.8	92	87	6	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	90				91	101			65-140
DCP	85				88	115			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J021A
Project:	Sunkist	Date Sampled:	10/11/2010
Project Site:	Sunkist, Ontario	Date Received:	10/11/2010
Matrix:	Soil	Date Extracted:	10/11/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/12/2010
Batch No.:	1012-PCB-S	Date Reported:	10/13/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1			
LAB SAMPLE I.D.		B10J021-1	B10J021-2	Method Blank			
CLIENT SAMPLE I.D.		E-3-1	E-3-2				
COMPOUND	RL						
PCB-1016	25	ND	ND	ND			
PCB-1221	50	ND	ND	ND			
PCB-1232	25	ND	ND	ND			
PCB-1242	25	ND	ND	ND			
PCB-1248	25	ND	ND	ND			
PCB-1254	25	ND	65.5	ND			
PCB-1260	25	ND	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140					
2,4,5,6-Tetrachloro-m-xylene		91	89	90			
Decachlorobiphenyl		105	112	85			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1012-PCB-S

Lab Job No.: B10J021A
Lab Sample ID: LCS
Date Analyzed: 10/12/2010
Date Reported: 10/13/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	485	478	97	96	1	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	90				91	81			65-140
DCP	85				84	86			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J021A
Project:	Sunkist	Date Sampled:	10/11/2010
Project Site:	Sunkist, Ontario	Date Received:	10/11/2010
Matrix:	Soil	Date Digested:	10/12/2010
Digestion Method:	3050B	Date Analyzed:	10/12/2010
Batch No.:	1012-MTS	Date Reported:	10/13/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10J021-1	B10J021-2			Report Limit
		E-3-1	E-3-2			
Antimony (Sb)	6010B	ND	ND			10
Arsenic (As)	6010B	2.91	2.85			0.5
Barium (Ba)	6010B	54.9	47.6			5.0
Beryllium (Be)	6010B	ND	ND			2.5
Cadmium (Cd)	6010B	ND	ND			2.5
Chromium (Cr)	6010B	20.7	19.6			2.5
Cobalt (Co)	6010B	4.79	4.82			2.5
Copper (Cu)	6010B	7.52	7.85			2.5
Lead (Pb)	6010B	4.62	3.79			2.5
Mercury (Hg)	7471A	ND	ND			0.1
Molybdenum (Mo)	6010B	ND	ND			5.0
Nickel (Ni)	6010B	4.52	4.92			2.5
Selenium (Se)	6010B	ND	ND			0.5
Silver (Ag)	6010B	ND	ND			2.5
Thallium (Tl)	6010B	ND	ND			2.5
Vanadium (V)	6010B	23.7	21.5			5.0
Zinc (Zn)	6010B	28.8	27.2			2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10J021A
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	10/13/2010
Batch No.:	1012-MTS	Date Reported:	10/13/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	10	9.73	8.59	97	86	12	≤20	80-120
Arsenic (As)	6010B	ND	10	10.1	11.4	101	114	12	≤20	80-120
Barium (Ba)	6010B	ND	10	9.17	8.39	92	84	9	≤20	80-120
Beryllium (Be)	6010B	ND	10	9.76	9.51	98	95	3	≤20	80-120
Cadmium (Cd)	6010B	ND	10	10.4	11.6	104	116	11	≤20	80-120
Chromium (Cr)	6010B	ND	10	9.61	10.0	96	100	4	≤20	80-120
Cobalt (Co)	6010B	ND	10	10.1	11.2	101	112	10	≤20	80-120
Copper (Cu)	6010B	ND	10	8.96	8.28	90	83	8	≤20	80-120
Lead (Pb)	6010B	ND	10	9.81	9.48	98	95	3	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.75	1.81	88	91	3	≤20	80-120
Molybdenum (Mo)	6010B	ND	10	10.0	9.66	100	97	3	≤20	80-120
Nickel (Ni)	6010B	ND	10	9.88	9.95	99	100	1	≤20	80-120
Selenium (Se)	6010B	ND	10	9.80	9.47	98	95	3	≤20	80-120
Silver (Ag)	6010B	ND	10	9.50	10.1	95	101	6	≤20	80-120
Thallium (Tl)	6010B	ND	10	9.55	9.30	96	93	3	≤20	80-120
Vanadium (V)	6010B	ND	10	9.24	8.84	92	88	4	≤20	80-120
Zinc (Zn)	6010B	ND	10	9.80	9.31	98	93	5	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J021A
Project :	Sunkist	Date Sampled:	10/11/2010
Project Site:	Sunkist, Ontario	Date Received:	10/11/2010
Matrix:	Soil	Date Extracted:	10/12/2010
Extraction Method:	3550B	Date Analyzed:	10/12/2010
Batch No.:	1012-SVOCS	Date Reported:	10/13/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor	1	1		
Lab Sample I.D.	B10J021-1	B10J021-2		
Client Sample I.D.	E-3-1	E-3-2		
Compound	RL			
Naphthalene	0.025	ND	ND	
Acenaphthylene	0.025	ND	ND	
Acenaphthene	0.025	ND	ND	
Fluorene	0.025	ND	ND	
Phenanthrene	0.025	ND	ND	
Anthracene	0.025	ND	ND	
Fluoranthene	0.025	ND	ND	
Pyrene	0.025	ND	ND	
Benzo (a) anthracene	0.025	ND	ND	
Chrysene	0.025	ND	ND	
Benzo (b) fluoranthene	0.025	ND	ND	
Benzo (k) fluoranthene	0.025	ND	ND	
Benzo (a) pyrene	0.025	ND	ND	
Indeno(1,2,3-cd)pyrene	0.025	ND	ND	
Dibenzo(a,h)anthracene	0.025	ND	ND	
Benzo(g,h,i)perylene	0.025	ND	ND	
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		78	81	
2-Fluorobiphenyl		71	90	
p-Terphenyl-d14		76	79	

ND: Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10J021A
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	10/12/2010
Batch No.:	1012-SVOCS	Date Reported:	10/13/2010

MB/LCS/LCSD Report

Unit: mg/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.19	0.18	76	72	5	≤30	50-150
Acenaphthylene	ND	0.25	0.20	0.21	80	84	5	≤30	50-150
Acenaphthene	ND	0.25	0.21	0.17	84	68	21	≤30	50-150
Fluorene	ND	0.25	0.18	0.19	72	76	5	≤30	50-150
Phenanthrene	ND	0.25	0.17	0.15	68	60	13	≤30	50-150
Anthracene	ND	0.25	0.16	0.17	64	68	6	≤30	50-150
Fluoranthene	ND	0.25	0.20	0.18	80	72	11	≤30	50-150
Pyrene	ND	0.25	0.19	0.16	76	64	17	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.18	0.17	72	68	6	≤30	50-150
Chrysene	ND	0.25	0.17	0.20	68	80	16	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.15	0.15	60	60	0	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.16	0.17	64	68	6	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.17	0.18	68	72	6	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.16	0.15	64	60	6	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.18	0.17	72	68	6	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.16	0.15	64	60	6	≤30	50-150
Nitrobenzene-d5 %Rec.	85				78	80			50-150
2-Fluorobiphenyl %Rec.	89				80	86			50-150
p-Terphenyl-d14 %Rec.	92				79	85			50-150

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested												
Address 7021 Beach Blvd. H.B. Ca.		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal		<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B(BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>GAM 17 Metals</td> <td>8270c SIM PNAS</td> </tr> </table>										EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	GAM 17 Metals	8270c SIM PNAS	<input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal
EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)													EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	GAM 17 Metals	8270c SIM PNAS			
Report Attention BEC	Phone # Fax: # 877-232-4620	Sampled By Brian Bauer																								
Project No./ Name		Project Site Sunkist Ontario																								
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container											Remarks									
		Date	Time																							
E-3-1	B10J021-1	10/11/10	10:27am	soil			X						X	X		X	X		normal							
E-3-2	-2	10/11/10	10:29am	soil			X						X	X		X	X		normal							
SPC-CC-32	-3	10/11/10	2:05pm	soil									X						rush							
																			SPC-CC-32							
																			was reported							
																			as B10J021							
																			on 10/12/2010							

Relinquished By Brian Bauer	Company BEC	Date 10/11/10	Time 3:57pm	Received By J. Jiang	Company ABC Labs	Date 10/11/10	Time 3:57PM	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/13/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/12/2010
Lab Job No.: B10J022

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/12/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J022
Project:	Sunkist	Date Sampled:	10/12/2010
Project Site:	Sunkist, Ontario	Date Received:	10/12/2010
Matrix:	Soil	Date Extracted:	10/12/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/12/2010
Batch No.:	1012-PCB-S1	Date Reported:	10/13/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		10	1	10	1	
LAB SAMPLE I.D.		B10J022-1	B10J022-2	B10J022-3	Method Blank	
CLIENT SAMPLE I.D.		SPC-CC-33	SPC-CC-34	SPC-CC-35		
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	
PCB-1221	50	ND	ND	ND	ND	
PCB-1232	25	ND	ND	ND	ND	
PCB-1242	25	ND	ND	ND	ND	
PCB-1248	25	ND	ND	ND	ND	
PCB-1254	25	1980	738	1890	ND	
PCB-1260	25	ND	ND	ND	ND	
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		112	125	110	94	
Decachlorobiphenyl		131	109	95	101	

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1012-PCB-S1

Lab Job No.: B10J022
Lab Sample ID: LCS
Date Analyzed: 10/12/2010
Date Reported: 10/13/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	477	488	95	98	2	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	94				112	91			65-140
DCP	101				114	102			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested				
Address 17011 Beach Blvd, HB, CA		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal												<input checked="" type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal				
Report Attention	Phone # 877-232-4620 Fax: #	Sampled By <i>Willy P.</i>																
Project No./ Name	Project Site Sunkist																	
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks
		Date	Time															
SPC-CC-33	B10J022-1	10/12	2:35	Soil									X					
SPC-CC-34	↓ -2	↓	2:40	↓									X					
SPC-CC-35	↓ -3	↓	2:42	↓									X					
Relinquished By <i>Willy Parrish</i>	Company BEC	Date 10/12/10	Time 3:16PM	Received By <i>J. J.</i>	Company ABC Labs	Date 10/12/10	Time 3:16PM	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.										
Relinquished By	Company	Date	Time	Received By	Company	Date	Time											

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/14/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/13/2010
Lab Job No.: B10J024

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/13/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J024
Project:	Sunkist	Date Sampled:	10/13/2010
Project Site:	Sunkist, Ontario	Date Received:	10/13/2010
Matrix:	Soil	Date Extracted:	10/13/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/14/2010
Batch No.:	1014-PCB-S	Date Reported:	10/14/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		10	10	1		
LAB SAMPLE I.D.		B10J024-1	B10J024-2	Method Blank		
CLIENT SAMPLE I.D.		SPC-CC-36	SPC-CC-37			
COMPOUND	RL					
PCB-1016	25	ND	ND	ND		
PCB-1221	50	ND	ND	ND		
PCB-1232	25	ND	ND	ND		
PCB-1242	25	ND	ND	ND		
PCB-1248	25	ND	ND	ND		
PCB-1254	25	1560	2980	ND		
PCB-1260	25	ND	ND	ND		
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		89	78	81		
Decachlorobiphenyl		86	75	86		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1014-PCB-S

Lab Job No.: B10J024
Lab Sample ID: LCS
Date Analyzed: 10/14/2010
Date Reported: 10/14/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	448	435	90	87	3	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	81				89	79			65-140
DCP	86				82	93			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name: BEC
Address: 17011 Beach BLVD, HB, CA
Report Attention: Phone # 877-232-4620
Project No./ Name: Sunkist
Sample Receipt Conditions: Chilled, Intact
Analyses Requested: EPA8260B, EPA8021B, EPA8015M, EPA8081A, EPA 8082, EPA418.1, EPA8015M, EPA 7000s, CAM 17 Metals
Client Sample ID: SPC-CC-36, SPC-CC-37
Lab Sample ID: B10J024-1, V-2
Sample Collection Date/Time: 10/13, 2:40; 10/13, 2:45
Matrix Type: Soil
Sample Preserve:
No., type & size of container:
Remarks:
Relinquished By: Lilly Parrish, BEC, 10/13/10, 3:03pm
Received By: ABC Labs, 10/13/10, 3:03 PM
Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Table with 6 columns: Matrix Code (DW, GW, WW, SD, SL, SS, AR, PP), Preservative Code (IC, HC, HN, SH, ST, HS), and Sample Container Types (T, G, ST, B, P, V, E= EnCore).

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/15/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/14/2010
Lab Job No.: B10J026

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/14/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J026
Project:	Sunkist	Date Sampled:	10/14/2010
Project Site:	Sunkist, Ontario	Date Received:	10/14/2010
Matrix:	Soil	Date Extracted:	10/14/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/14/2010
Batch No.:	1014-PCB-S	Date Reported:	10/15/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		5	1			
LAB SAMPLE I.D.		B10J026-1	Method Blank			
CLIENT SAMPLE I.D.		SPC-CC-38				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	3200	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%)		QC Limit: 65-140				
2,4,5,6-Tetrachloro-m-xylene		91	81			
Decachlorobiphenyl		102	86			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1014-PCB-S

Lab Job No.: B10J026
Lab Sample ID: LCS
Date Analyzed: 10/14/2010
Date Reported: 10/15/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	442	434	88	87	2	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	81				89	79			65-140
DCP	86				82	93			65-140

ND: Not Detected (Below RL).



**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761
Tel: 562-413-8343
Tel/ Fax: 909-923-8628

Page _____ of _____
Lab Job Number B10J026

CHAIN OF CUSTODY

Client Name BEC			Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested			
Address 17011 Beach Blvd, HB, CA			<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal												<input checked="" type="checkbox"/> Rush 8 12 <u>24</u> 48 Hours <input type="checkbox"/> Normal			
Report Attention	Phone # 577-232-4620	Fax: #	Sampled By Willy P.															
Project No./ Name	Project Site Sunkist																	
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks
		Date	Time															
SPC-CC-38	B10J026-1	10/14/10	8:01	Soil									<input checked="" type="checkbox"/>					
			12:55	Soil														

Relinquished By Willy Parrish	Company BEC	Date 10/14/10	Time 3:24	Received By [Signature]	Company ABC	Date 10/14/10	Time 3:24 PM
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code IC=Ice HC=HCl HN=HNO ₃ SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube B= Brass Tube P=Plastic Bottle V=VOA Vial E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/18/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/15/2010
Lab Job No.: B10J027

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/15/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J027
Project:	Sunkist	Date Sampled:	10/15/2010
Project Site:	Sunkist, Ontario	Date Received:	10/15/2010
Matrix:	Soil	Date Extracted:	10/16/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/16/2010
Batch No.:	1016-PCB-S	Date Reported:	10/18/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		5	1			
LAB SAMPLE I.D.		B10J027-1	Method Blank			
CLIENT SAMPLE I.D.		SPC-CC-39				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	9280	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		75	112			
Decachlorobiphenyl		89	105			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1016-PCB-S

Lab Job No.: B10J027
Lab Sample ID: LCS
Date Analyzed: 10/16/2010
Date Reported: 10/18/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	446	462	89	92	4	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	112				91	93			65-140
DCP	105				88	87			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested												Turn Around Time Requested																
Address <u>17011 Beach Blvd</u>		<input checked="" type="checkbox"/> Chilled		<table border="1"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B (BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td colspan="2"><u>82 TOC SIM PNAS</u></td> <td></td> <td></td> </tr> </table>												EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<u>82 TOC SIM PNAS</u>				<input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal	
EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)													EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<u>82 TOC SIM PNAS</u>									
Report Attention	Phone # Fax: # <u>877-232-4620</u>	Sampled By <u>Brian Bauer</u>		<input checked="" type="checkbox"/> Intact		<input type="checkbox"/> Sample Seal																										
Project No./ Name	Project Site <u>Sunkist Ontario</u>																															
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container													Remarks													
		Date	Time																													
<u>SPC-CC-39</u>	<u>B10J027-1</u>	<u>10/15/10</u>	<u>12:55pm</u>	<u>Soil</u>	<u>Ice</u>	<u>1 ST</u>													<u>rush</u>													
<u>F-3-1</u>	<u>V-2</u>	<u>10/15/10</u>	<u>12:15pm</u>	<u>Water</u>	<u>Ice</u>	<u>16, 2V</u>	<u>X</u>						<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>normal</u>														
<u>F-3-2</u>		<u>10/15/10</u>	<u>12:30pm</u>	<u>Water</u>	<u>Ice</u>	<u>16, 2V</u>	<u>X</u>						<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>hold</u>														

Relinquished By <u>Brian Bauer</u>	Company <u>BEC</u>	Date <u>10/15/10</u>	Time <u>1:26pm</u>	Received By <u>J. Jones</u>	Company <u>ABC Labs</u>	Date <u>10/15/10</u>	Time <u>1:26PM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/20/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/15/2010
Lab Job No.: B10J027A

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/11/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Wter
 Batch No.: 1016-VOCW

Lab Job No.: B10J027A
 Date Sampled: 10/15/2010
 Date Received: 10/15/2010
 Date Analyzed: 10/16/2010
 Date Reported: 10/20/2010

EPA 8260B (VOCs & Oxygenates) by GC/MS, Page 1 of 2

Reporting Unit: ug/L (ppb)

Date Analyzed			10/15/10	10/15/10		
Dilution Factor			1	1		
Lab Sample I.D.			B10J027-2	Method Blank		
Client Sample I.D.			F-3-1			
Compound	MDL	RL				
Dichlorodifluoromethane	1.5	5	ND	ND		
Chloromethane	1.5	5	ND	ND		
Vinyl Chloride	1.5	5	ND	ND		
Bromomethane	1.5	5	ND	ND		
Chloroethane	1.5	5	ND	ND		
Trichlorofluoromethane	1.5	5	ND	ND		
1,1-Dichloroethene	1.5	5	ND	ND		
Carbon disulfide	1.5	5	ND	ND		
Methylene chloride	1.5	5	ND	ND		
Trans-1,2-Dichloroethene	1.5	5	ND	ND		
1,1-Dichloroethane	1	2	ND	ND		
2,2-Dichloropropane	1.5	5	ND	ND		
Cis-1,2-Dichloroethene	1.5	5	ND	ND		
Bromochloromethane	1.5	5	ND	ND		
Chloroform	1.5	5	ND	ND		
1,1,1-Trichloroethane	1.5	5	ND	ND		
Vinyl acetate	1.5	5	ND	ND		
Carbontetrachloride	1.5	5	ND	ND		
1,1-Dichloropropene	1.5	5	ND	ND		
1,2-Dichloroethane	1	2	ND	ND		
Benzene	0.5	1	ND	ND		
Trichloroethene	1	2	ND	ND		
1,2-Dichloropropane	1.5	5	ND	ND		
Methyl methacrylate	1.5	5	ND	ND		
Dibromomethane	1.5	5	ND	ND		
Bromodichloromethane	1.5	5	ND	ND		
2-Chloroethyl Vinyl Ether	1.5	5	ND	ND		
Cis-1,3-Dichloropropene	1.5	5	ND	ND		
Toluene	0.5	1	121	ND		
Trans-1,3-Dichloropropene	1.5	5	ND	ND		
Ethylmethacrylate	1.5	5	ND	ND		
1,1,2-Trichloroethane	1.5	5	ND	ND		
Dibromochloromethane	1.5	5	ND	ND		
1,2-Dibromoethane (EDB)	1.5	5	ND	ND		
Tetrachloroethene	1	2	ND	ND		
1,3-Dichloropropane	1.5	5	ND	ND		
Chlorobenzene	1	2	ND	ND		

RL=Reporting Limit; ND=Not Detected (Below DFx MDL); MDL= Method Detection Limit.
 J= Value Detected Between MDL and RL.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Wter
 Batch No.: 1016-VOCW

Lab Job No.: B10J027A
 Date Sampled: 10/15/2010
 Date Received: 10/15/2010
 Date Analyzed: 10/16/2010
 Date Reported: 10/20/2010

EPA 8260B (VOCs & Oxygenates) by GC/MS, Page 2 of 2

Reporting Unit: ug/L (ppb)

Date Analyzed			10/15/10	10/15/10		
Dilution Factor			1	1		
Lab Sample I.D.			B10J027-2	Method Blank		
Client Sample I.D.			F-3-1			
Compound	MDL	RL				
1,1,1,2-Tetrachloroethane	1.5	5	ND	ND		
Ethylbenzene	0.5	1	ND	ND		
Total Xylene	1	2	1.35J	ND		
Styrene	1.5	5	ND	ND		
Bromoform	1.5	5	ND	ND		
Isopropyl benzene	1	2	ND	ND		
Bromobenzene	1.5	5	ND	ND		
1,2,3-Trichloropropane	1.5	5	ND	ND		
1,1,2,2,-Tetrachloroethane	1.5	5	ND	ND		
Trans-1,4-dichloro-2-butene	1.5	5	ND	ND		
2-Chlorotoluene	1.5	5	ND	ND		
n-Propyl benzene	1	2	ND	ND		
4-Chlorotoluene	1.5	5	ND	ND		
1,3,5-Trimethyl benzene	1	2	ND	ND		
tert-Butylbenzene	1.5	5	ND	ND		
p-Isopropyl toluene	1.5	5	ND	ND		
1,2,4-Trimethyl benzene	1	2	ND	ND		
sec-Butylbenzene	1.5	5	ND	ND		
1,3-Dichlorobenzene	1.5	5	ND	ND		
1,4-Dichlorobenzene	1.5	5	ND	ND		
1,2-Dichlorobenzene	1.5	5	ND	ND		
n-Butylbenzene	1.5	5	ND	ND		
1,2-Dibromo-3-chloropropan	1.5	5	ND	ND		
1,2,4-Trichlorobenzene	1.5	5	ND	ND		
Hexachlorobutadiene	1.5	5	ND	ND		
Naphthalene	1	2	ND	ND		
1,2,3-Trichlorobenzene	1.5	5	ND	ND		
Acetone	10	25	450	ND		
Methyl Ethyl Ketone	10	20	1370	ND		
MTBE	1	2	ND	ND		
Methyl Isobutyl Ketone	10	20	ND	ND		
Ethyl-t-butyl Ether(ETBE)	1	2	ND	ND		
Diisopropyl ether (DIPE)	1	2	ND	ND		
TAME	1	2	ND	ND		
t-Butanol	10	20	ND	ND		
Surrogate Recovery (%)	QC Limit 70-130					
1,2-Dichloroethane-d4			102	98		
Toluene-d8			96	95		
4-Bromofluorobenzene			101	105		

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client: Bowyer Environmental Lab Job No.: B10J027A
Project: Sunkist Lab Sample ID: LCS
Matrix: Water Date Analyzed: 10/16/2010
Batch No.: 1016-VOCW Date Reported: 10/20/2010

MB/LCS/LCSD Report

Unit: ug/L (PPB)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	20.0	23.2	21.9	116	110	6	≤20	80-120
Benzene	ND	20.0	22.2	22.9	111	115	3	≤20	80-120
Trichloroethene	ND	20.0	21.9	18.9	110	95	15	≤20	80-120
Toluene	ND	20.0	21.3	22.7	107	114	6	≤20	80-120
Chlorobenzene	ND	20.0	23.1	20.7	116	104	11	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	98				105	95			70-130
Toluene-d8	95				102	98			70-130
4-Bromofluorobenzene	105				112	105			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client: Bowyer Environmental Lab Job No.: B10J027A
Project: Sunkist Date Sampled: 10/15/2010
Project Site: Sunkist, Ontario Date Received: 10/15/2010
Matrix: Water Date Analyzed: 10/15/2010
Batch No.: AJ15-GW (TPH-G) Date Analyzed: 10/16/2010
Batch No.: BJ16-DW (TPH-D) Date Reported: 10/20/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: ug/L (PPB)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%)	Surrogate(%)
		C4-C12	C12-C24	C24-C40	For Gasoline	For Diesel
	RL	50	500	1000		
F-3-1	B10J027-2	285	565	ND	92	86

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10J027A
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Water	Date Analyzed:	10/15/2010
Batch No.:	AJ15-GW (TPH-G)	Date Reported:	10/20/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1,000	1,100	973	110	97	12	≤20	80-120
Surrogate (%)	95				92	90			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10J027A

Project: Sunkist

Lab Sample ID: LCS

Matrix: Water

Date Analyzed: 10/16/2010

Batch No.: BJ16-DW (TPH-D)

Date Reported: 10/20/2010

MB/LCS/LCSD Report

Unit: mg/L (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	545	504	109	101	8	≤20	80-120
Surrogate (%)	89				78	71			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J027A
Project:	Sunkist	Date Sampled:	10/15/2010
Project Site:	Sunkist, Ontario	Date Received:	10/15/2010
Matrix:	Water	Date Extracted:	10/16/2010
Extraction Method:	EPA 3510C	Date Analyzed:	10/16/2010
Batch No.:	1016-PES-W	Date Reported:	10/20/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/L (PPB)

DILUTION FACTOR		1	1			
LAB SAMPLE I.D.		B10J027-2	Method Blank			
CLIENT SAMPLE I.D.		F-3-1				
COMPOUND	RL					
α-BHC	0.2	ND	ND			
γ-BHC	0.2	ND	ND			
Heptachlor	0.2	ND	ND			
Aldrin	0.2	ND	ND			
β-BHC	0.2	ND	ND			
δ-BHC	0.2	ND	ND			
α-Chlordane	0.2	ND	ND			
γ-Chlordane	0.2	ND	ND			
Heptachlor Epoxide	0.2	ND	ND			
Endosulfan I	0.2	ND	ND			
4,4'-DDE	0.2	ND	ND			
Dieldrin	0.2	ND	ND			
Endrin	0.2	ND	ND			
Endosulfan II	0.2	ND	ND			
4,4'-DDD	0.2	ND	ND			
4,4'-DDT	0.2	ND	ND			
Endrin Aldehyde	0.2	ND	ND			
Endosulfan Sulfate	0.2	ND	ND			
Methoxychlor	0.8	ND	ND			
Endrin Ketone	0.4	ND	ND			
Technical Chlordane	1	ND	ND			
Toxaphene	4	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		78	81			
Decachlorobiphenyl		71	90			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Water
Batch No.: 1016-PES-W

Lab Job No.: B10J027A
Lab Sample ID: LCS
Date Analyzed: 10/16/2010
Date Reported: 10/20/2010

MB/LCS/LCSD Report

Unit: ug/L

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	17.5	18.5	88	93	6	≤30	50-150
Heptachlor	ND	20	18.2	17.6	91	88	3	≤30	50-150
Aldrin	ND	20	18.5	17.8	93	89	4	≤30	50-140
Dieldrin	ND	40	30.2	32.5	76	81	7	≤30	70-130
Endrin	ND	40	32.5	38.1	81	95	16	≤30	70-150
4,4'-DDT	ND	40	35.5	40.2	89	101	12	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	81				78	87			65-140
DCP	90				89	91			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J027A
Project:	Sunkist	Date Sampled:	10/15/2010
Project Site:	Sunkist, Ontario	Date Received:	10/15/2010
Matrix:	Water	Date Extracted:	10/16/2010
Extraction Method:	EPA 3510C	Date Analyzed:	10/16/2010
Batch No.:	1016-PCB-W	Date Reported:	10/20/2010

EPA 8082 (PCBs)

Reporting Unit: µg/L (ppb)

DILUTION FACTOR		1	1		
LAB SAMPLE I.D.		B10J027-2	Method Blank		
CLIENT SAMPLE I.D.		F-3-1			
COMPOUND	RL				
PCB-1016	1.5	ND	ND		
PCB-1221	3	ND	ND		
PCB-1232	1.5	ND	ND		
PCB-1242	1.5	ND	ND		
PCB-1248	1.5	ND	ND		
PCB-1254	1.5	ND	ND		
PCB-1260	1.5	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140			
2,4,5,6-Tetrachloro-m-xylene		78	81		
Decachlorobiphenyl		71	90		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Water
Batch No.: 1016-PCB-S

Lab Job No.: B10J027A
Lab Sample ID: LCS
Date Analyzed: 10/16/2010
Date Reported: 10/20/2010

MB/LCS/LCSD Report

Unit: ug/L

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	425	461	85	92	8	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	81				81	86			65-140
DCP	90				85	91			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J027A
Project:	Sunkist	Date Sampled:	10/15/2010
Project Site:	Sunkist, Ontario	Date Received:	10/15/2010
Matrix:	Water	Date Digested:	10/16/2010
Digestion Method:	3050B	Date Analyzed:	10/18/2010
Batch No.:	1018-MTW	Date Reported:	10/20/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/L (PPM)

Element	EPA Method	B10J027-2			Report Limit
		F-3-1			
Antimony (Sb)	6010B	ND			0.01
Arsenic (As)	6010B	0.019			0.01
Barium (Ba)	6010B	2.56			0.01
Beryllium (Be)	6010B	ND			0.01
Cadmium (Cd)	6010B	ND			0.01
Chromium (Cr)	6010B	0.952			0.01
Cobalt (Co)	6010B	0.059			0.01
Copper (Cu)	6010B	1.38			0.01
Lead (Pb)	6010B	0.429			0.01
Mercury (Hg)	7471A	ND			0.005
Molybdenum (Mo)	6010B	ND			0.01
Nickel (Ni)	6010B	0.289			0.005
Selenium (Se)	6010B	ND			0.02
Silver (Ag)	6010B	ND			0.015
Thallium (Tl)	6010B	ND			0.015
Vanadium (V)	6010B	0.285			0.015
Zinc (Zn)	6010B	6.45			0.005

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10J027A
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Water	Date Analyzed:	10/18/2010
Batch No.:	1018-MTW	Date Reported:	10/20/2010

MB/LCS/LCSD Report

Unit: mg/L (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	1	1.01	0.993	101	99	2	≤20	80-120
Arsenic (As)	6010B	ND	1	1.0	1.05	100	105	5	≤20	80-120
Barium (Ba)	6010B	ND	1	1.0	0.986	100	99	1	≤20	80-120
Beryllium (Be)	6010B	ND	1	1.01	0.972	101	97	4	≤20	80-120
Cadmium (Cd)	6010B	ND	1	1.0	1.04	100	104	4	≤20	80-120
Chromium (Cr)	6010B	ND	1	1.0	0.975	100	98	2	≤20	80-120
Cobalt (Co)	6010B	ND	1	1.0	1.04	100	104	4	≤20	80-120
Copper (Cu)	6010B	ND	1	0.99	0.924	99	92	6	≤20	80-120
Lead (Pb)	6010B	ND	1	1.00	0.993	100	99	1	≤20	80-120
Mercury (Hg)	7471A	ND	0.01	0.009	0.011	90	110	20	≤20	80-120
Molybdenum (Mo)	6010B	ND	1	1.0	1.02	100	102	2	≤20	80-120
Nickel (Ni)	6010B	ND	1	1.0	1.02	100	102	2	≤20	80-120
Selenium (Se)	6010B	ND	1	1.0	1.04	100	104	4	≤20	80-120
Silver (Ag)	6010B	ND	1	0.99	1.02	99	102	3	≤20	80-120
Thallium (Tl)	6010B	ND	1	1.01	1.03	101	103	2	≤20	80-120
Vanadium (V)	6010B	ND	1	0.99	0.943	99	94	5	≤20	80-120
Zinc (Zn)	6010B	ND	1	1.0	1.03	100	103	3	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J027A
Project :	Sunkist	Date Sampled:	10/15/2010
Project Site:	Sunkist, Ontario	Date Received:	10/15/2010
Matrix:	Water	Date Extracted:	10/16/2010
Extraction Method:	3510C	Date Analyzed:	10/17/2010
Batch No.:	1017-SVOCW	Date Reported:	10/20/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: ug/L (PPB)

Dilution Factor	1			
Lab Sample I.D.	B10J027-2			
Client Sample I.D.	F-3-1			
Compound	RL			
Naphthalene	1.5	ND		
Acenaphthylene	1.5	ND		
Acenaphthene	1.5	ND		
Fluorene	1.5	ND		
Phenanthrene	1.5	ND		
Anthracene	1.5	ND		
Fluoranthene	1.5	ND		
Pyrene	1.5	ND		
Benzo (a) anthracene	1.5	ND		
Chrysene	1.5	ND		
Benzo (b) fluoranthene	1.5	ND		
Benzo (k) fluoranthene	1.5	ND		
Benzo (a) pyrene	1.5	ND		
Indeno(1,2,3-cd)pyrene	1.5	ND		
Dibenzo(a,h)anthracene	1.5	ND		
Benzo(g,h,i)perylene	1.5	ND		
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		87		
2-Fluorobiphenyl		85		
p-Terphenyl-d14		83		

ND: Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10J027A
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Water	Date Analyzed:	10/17/2010
Batch No.:	1017-SVOCW	Date Reported:	10/20/2010

MB/LCS/LCSD Report

Unit: ug/L

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	5.0	3.85	2.98	77	60	25	≤30	50-150
Acenaphthylene	ND	5.0	3.25	3.65	65	73	12	≤30	50-150
Acenaphthene	ND	5.0	3.21	3.45	64	69	7	≤30	50-150
Fluorene	ND	5.0	3.25	3.81	65	76	16	≤30	50-150
Phenanthrene	ND	5.0	3.85	3.45	77	69	11	≤30	50-150
Anthracene	ND	5.0	4.12	4.25	82	85	3	≤30	50-150
Fluoranthene	ND	5.0	4.35	4.85	87	97	11	≤30	50-150
Pyrene	ND	5.0	3.98	4.01	80	80	1	≤30	50-150
Benzo (a) anthracene	ND	5.0	4.01	4.36	80	87	8	≤30	50-150
Chrysene	ND	5.0	4.36	3.65	87	73	18	≤30	50-150
Benzo (b) fluoranthene	ND	5.0	4.13	3.85	83	77	7	≤30	50-150
Benzo (k) fluoranthene	ND	5.0	3.42	4.01	68	80	16	≤30	50-150
Benzo (a) pyrene	ND	5.0	4.35	4.56	87	91	5	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	5.0	3.45	2.98	69	60	15	≤30	50-150
Dibenzo(a,h)anthracene	ND	5.0	3.12	3.41	62	68	9	≤30	50-150
Benzo(g,h,i)perylene	ND	5.0	3.45	4.10	69	82	17	≤30	50-150
Nitrobenzene-d5 %Rec.	78				84	79			50-150
2-Fluorobiphenyl %Rec.	81				83	80			50-150
p-Terphenyl-d14 %Rec.	90				78	86			50-150

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested												Turn 'Around Time Requested	
Address <u>17011 Beach Blvd</u>		<input checked="" type="checkbox"/> Chilled		EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<u>82 TOC SIM PAAS</u>	<input type="checkbox"/> Rush 8 12 24 48 Hours	
Report Attention	Phone # <u>877-232-4620</u>	Sampled By <u>Brian Bauer</u>	<input checked="" type="checkbox"/> Intact													<input type="checkbox"/> Normal	
Project No./ Name	Project Site <u>Sunkist Ontario</u>		<input type="checkbox"/> Sample Seal														
Client Sample ID	Lab Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container											Remarks
<u>SPC-cc-39</u>	<u>B10J027-1</u>	<u>10/15/10</u>	<u>12:55pm</u>	<u>Soil</u>	<u>Ice</u>	<u>1 ST</u>											<u>rush</u>
<u>F-3-1</u>	<u>↓-2</u>	<u>10/15/10</u>	<u>12:15pm</u>	<u>Water</u>	<u>Ice</u>	<u>16, 2V</u>	<u>X</u>					<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>normal</u>
<u>F-3-2</u>		<u>10/15/10</u>	<u>12:30pm</u>	<u>Water</u>	<u>Ice</u>	<u>16, 2V</u>	<u>X</u>					<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>		<u>hold</u>
																	<u>SPC-cc-39</u>
																	<u>was reported</u>
																	<u>on B10J027</u>
Relinquished By <u>Brian Bauer</u>		Company <u>BEC</u>	Date <u>10/15/10</u>	Time <u>1:26pm</u>	Received By <u>J. Jones</u>		Company <u>ABC Labs</u>	Date <u>10/15/10</u>	Time <u>1:26PM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.							
Relinquished By		Company	Date	Time	Received By		Company	Date	Time								

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/20/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/19/2010
Lab Job No.: B10J034

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/19/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J034
Project:	Sunkist	Date Sampled:	10/19/2010
Project Site:	Sunkist, Ontario	Date Received:	10/19/2010
Matrix:	Soil	Date Extracted:	10/19/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/20/2010
Batch No.:	1020-PCB-S	Date Reported:	10/20/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		10	1	1	1	
LAB SAMPLE I.D.		B10J034-1	B10J034-2	B10J034-3	Method Blank	
CLIENT SAMPLE I.D.		SPC-CC-40	SPC-CC-41	SPC-CC-42		
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	
PCB-1221	50	ND	ND	ND	ND	
PCB-1232	25	ND	ND	ND	ND	
PCB-1242	25	ND	ND	ND	ND	
PCB-1248	25	ND	ND	ND	ND	
PCB-1254	25	14000	258	447	ND	
PCB-1260	25	ND	ND	ND	ND	
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		105	95	125	101	
Decachlorobiphenyl		112	105	123	98	

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1019-PCB-S

Lab Job No.: B10J034
Lab Sample ID: LCS
Date Analyzed: 10/19/2010
Date Reported: 10/20/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	465	481	93	96	3	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	101				85	78			65-140
DCP	98				81	80			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested												Turn Around Time Requested											
Address 17011 Beach Blvd, HB, CA		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal		EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<input checked="" type="checkbox"/> Rush 8 12 <u>(24)</u> 48 Hours <input type="checkbox"/> Normal												
Report Attention	Phone # 577-232-4620 Fax: #	Sampled By Willy P.																									
Project No./ Name	Project Site Sunkist																										
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container										Remarks											
		Date	Time																								
SPC-CC-40	B10J034-1	10/19/10	1:37	Soil																							
SPC-CC-41	↓ -2	↓	1:39	↓																							
SPC-CC-42	↓ -3	↓	1:40	↓																							
Relinquished By Willy Parrish	Company BEC	Date 10/19/10	Time 2:02	Received By J. Fong	Company ABC Labs	Date 10/19/10	Time 2:02	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.																			
Relinquished By	Company	Date	Time	Received By	Company	Date	Time																				

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/25/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/20/2010
Lab Job No.: B10J037

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/20/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J037
Project:	Sunkist	Date Sampled:	10/20/2010
Project Site:	Sunkist, Ontario	Date Received:	10/20/2010
Matrix:	Solid	Date Extracted:	10/20/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/23/2010
Batch No.:	1023-PCB-S	Date Reported:	10/25/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	2	5
LAB SAMPLE I.D.		B10J037-1	B10J037-2	B10J037-3	B10J037-4	B10J037-5
CLIENT SAMPLE I.D.		B15-A-1A	B15-A-1B	B15-A-2	B15-A-3A	B15-A-3B
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	ND	ND	ND	ND	284
PCB-1260	25	ND	ND	ND	ND	ND
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		106	85	91	84	86
Decachlorobiphenyl		118	112	106	112	108

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J037
Project:	Sunkist	Date Sampled:	10/20/2010
Project Site:	Sunkist, Ontario	Date Received:	10/20/2010
Matrix:	Solid	Date Extracted:	10/20/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/23/2010
Batch No.:	1023-PCB-S	Date Reported:	10/25/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	2	5	5
LAB SAMPLE I.D.		B10J037-6	B10J037-7	B10J037-8	B10J037-9	B10J037-10
CLIENT SAMPLE I.D.		B15-A-4	B15-A-5	B15-D	B15-E	B15-F
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	ND	ND	672	ND	ND
PCB-1260	25	ND	ND	90.2	ND	ND
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		87	86	93	112	132
Decachlorobiphenyl		91	92	86	105	121

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J037
Project:	Sunkist	Date Sampled:	10/20/2010
Project Site:	Sunkist, Ontario	Date Received:	10/20/2010
Matrix:	Solid	Date Extracted:	10/20/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/23/2010
Batch No.:	1023-PCB-S	Date Reported:	10/25/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1.25	5	5	2
LAB SAMPLE I.D.		B10J037-11	B10J037-12	B10J037-13	B10J037-14	B10J037-15
CLIENT SAMPLE I.D.		B15-G	B15-H	B15-I-A	B15-I-B	B15-I-C
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	ND	ND	ND	ND	ND
PCB-1260	25	ND	ND	ND	ND	ND
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		112	95	102	81	105
Decachlorobiphenyl		105	113	86	78	108

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J037
Project:	Sunkist	Date Sampled:	10/20/2010
Project Site:	Sunkist, Ontario	Date Received:	10/20/2010
Matrix:	Solid	Date Extracted:	10/20/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/23/2010
Batch No.:	1023-PCB-S	Date Reported:	10/25/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	25	1	
LAB SAMPLE I.D.		B10J037-16	B10J037-17	B10J037-18	Method Blank	
CLIENT SAMPLE I.D.		B15-J	B15-K	WW-A		
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	
PCB-1221	50	ND	ND	ND	ND	
PCB-1232	25	ND	ND	ND	ND	
PCB-1242	25	ND	ND	ND	ND	
PCB-1248	25	ND	ND	ND	ND	
PCB-1254	25	374	ND	ND	ND	
PCB-1260	25	39.2	ND	19800	ND	
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		105	85	90	90	
Decachlorobiphenyl		92	96	102	85	

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Solid
Batch No.: 1023-PCB-S

Lab Job No.: B10J037
Lab Sample ID: LCS
Date Analyzed: 10/23/2010
Date Reported: 10/25/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	458	489	92	98	7	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	90				112	89			65-140
DCP	85				105	92			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested												Turn Around Time Requested				
Address <u>17011 Beach BLVD HB, CA</u>		<input checked="" type="checkbox"/> Chilled		EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal					
Report Attention	Phone # <u>877-232-4620</u> Fax: #	<input checked="" type="checkbox"/> Intact																		
Project No./ Name	Project Site <u>Sunkist</u>		<input type="checkbox"/> Sample Seal														Remarks			
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container														Remarks
		Date	Time																	
<u>B15-A-1A</u>	<u>B10J037-1</u>	<u>10/20/10</u>	<u>12:00</u>	<u>Soil</u>																
<u>B15-A-1B</u>	<u>-2</u>		<u>12:10</u>																	
<u>B15-A-2</u>	<u>-3</u>		<u>12:15</u>																	
<u>B15-A-3A</u>	<u>-4</u>		<u>12:30</u>																	
<u>B15-A-3B</u>	<u>-5</u>		<u>12:40</u>																	
<u>B15-A-4</u>	<u>-6</u>		<u>12:45</u>																	
<u>B15-A-5</u>	<u>-7</u>		<u>12:50</u>																	
<u>B15-D</u>	<u>-8</u>		<u>1:00</u>																	
<u>B15-E</u>	<u>-9</u>		<u>1:15</u>																	
<u>B15-F</u>	<u>-10</u>		<u>1:25</u>																	
<u>B15-G</u>	<u>-11</u>		<u>1:45</u>																	
<u>B15-H</u>	<u>-12</u>		<u>2:20</u>																	
<u>B15-I-A</u>	<u>-13</u>		<u>2:45</u>																	
<u>B15-I-B</u>	<u>-14</u>		<u>3:00</u>																	
<u>B15-I-C</u>	<u>-15</u>		<u>3:15</u>																	
Relinquished By <u>Willy Parrish</u> Company <u>BEC</u>		Date <u>10/20/10</u>	Time <u>5:25</u>	Received By <u>J. Jiang</u> Company <u>ABC Labs</u>		Date <u>10/20/10</u>	Time <u>5:25 PM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.												
Relinquished By		Date	Time	Received By		Date	Time													

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested
Address <u>1704 Beach Blvd HB, CA</u>		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal												<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal
Report Attention	Phone # <u>877-232-4620</u> Fax: #	Sampled By <u>Willy P.</u>												
Project No./ Name	Project Site <u>Sunkist</u>													

Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks
		Date	Time															
<u>B15-J</u>	<u>B10J037-16</u>	<u>10/20/10</u>	<u>3:30</u>	<u>Soil</u>									<u>X</u>					
<u>B15-K</u>	<u>↓ -17</u>	<u>↓</u>	<u>4:00</u>	<u>↓</u>									<u>X</u>					
<u>WW-A</u>	<u>↓ -18</u>	<u>↓</u>	<u>4:35</u>	<u>↓</u>									<u>X</u>					

Relinquished By <u>Willy Parisi</u>	Company <u>BEC</u>	Date <u>10/20/10</u>	Time <u>5:25</u>	Received By <u>J. Jean</u>	Company <u>ABC Labs</u>	Date <u>10/20/10</u>	Time <u>5:25 PM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product, Preservative Code: IC=Ice, HC=HCl, HN=HNO3, SH=NaOH, ST=Na2S2O3, HS=H2SO4, * Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST= Steel Tube, B= Brass Tube, P=Plastic Bottle, V=VOA Vial, E= EnCore

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/25/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/22/2010
Lab Job No.: B10J042

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/22/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J042
Project:	Sunkist	Date Sampled:	10/22/2010
Project Site:	Sunkist, Ontario	Date Received:	10/22/2010
Matrix:	Soil	Date Extracted:	10/23/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/23/2010
Batch No.:	1023-PCB-S	Date Reported:	10/25/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		5	1			
LAB SAMPLE I.D.		B10J042-1	Method Blank			
CLIENT SAMPLE I.D.		SPC-CC-43				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	5330	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		79	90			
Decachlorobiphenyl		86	85			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1023-PCB-S

Lab Job No.: B10J042
Lab Sample ID: LCS
Date Analyzed: 10/23/2010
Date Reported: 10/25/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	458	489	92	98	7	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	90				112	89			65-140
DCP	85				105	92			65-140

ND: Not Detected (Below RL).



Environmental Laboratories, Inc.

1640B S. Grove Ave., Ontario, CA 91761
 Tel: 562-413-8343
 Tel/ Fax: 909-923-8628

Page 1 of 1
 Lab Job Number B10J042

CHAIN OF CUSTODY

Client Name BEC				Sample Receipt Conditions		Analyses Requested <table style="width:100%; border-collapse: collapse; border: none;"> <tr> <td style="border: none; text-align: center; width: 10%;">EPA8260B (VOCs & Oxygenates)</td> <td style="border: none; text-align: center; width: 10%;">EPA8260B(BTEX & Oxygenates)</td> <td style="border: none; text-align: center; width: 10%;">EPA8021B (BTEX & MTBE)</td> <td style="border: none; text-align: center; width: 10%;">EPA8015M / 8015B (Gasoline)</td> <td style="border: none; text-align: center; width: 10%;">EPA8015M / 8015B (Diesel)</td> <td style="border: none; text-align: center; width: 10%;">EPA8081A (Organochlorine Pesticides)</td> <td style="border: none; text-align: center; width: 10%;">EPA 8082 (PCBs)</td> <td style="border: none; text-align: center; width: 10%;">EPA418.1 (TRPH)</td> <td style="border: none; text-align: center; width: 10%;">EPA8015M (Carbon Chain)</td> <td style="border: none; text-align: center; width: 10%;">EPA 7000s (Metals)</td> <td style="border: none; text-align: center; width: 10%;">CAM 17 Metals</td> <td style="border: none;"></td> <td style="border: none;"></td> <td style="border: none;"></td> <td style="border: none;"></td> </tr> </table>											EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals					Turn Around Time Requested	
EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)												EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals												
Address 17011 Beach Blvd HB, CA				<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal		<input checked="" type="checkbox"/> Rush 8 12 <u>24</u> 48 Hours <input checked="" type="checkbox"/> Normal																											
Report Attention	Phone # 877-232-4620		Fax: #		Sampled By Willy Parrish																												
Project No./ Name		Project Site Sunkist																															
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks															
		Date	Time																														
SR-CC-43	B10J042-	10/22/10	1:25pm	Soil									X																				

Relinquished By Willy Parrish	Company BEC	Date 10/22/10	Time 2:25pm	Received By J. Young	Company ABC Labs	Date 10/22/10	Time 2:25PM	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code: DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/26/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/25/2010
Lab Job No.: B10J043

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/25/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J043
Project:	Sunkist	Date Sampled:	10/25/2010
Project Site:	Sunkist, Ontario	Date Received:	10/25/2010
Matrix:	Soil	Date Extracted:	10/25/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/25/2010
Batch No.:	1025-PCB-S	Date Reported:	10/26/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		10	10	1		
LAB SAMPLE I.D.		B10J043-1	B10J043-2	Method Blank		
CLIENT SAMPLE I.D.		SPC-CC-44	SPC-CC-45			
COMPOUND	RL					
PCB-1016	25	ND	ND	ND		
PCB-1221	50	ND	ND	ND		
PCB-1232	25	ND	ND	ND		
PCB-1242	25	ND	ND	ND		
PCB-1248	25	ND	ND	ND		
PCB-1254	25	3550	5330	ND		
PCB-1260	25	ND	ND	ND		
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		112	108	81		
Decachlorobiphenyl		126	112	90		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1025-PCB-S

Lab Job No.: B10J043
Lab Sample ID: LCS
Date Analyzed: 10/25/2010
Date Reported: 10/26/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	478	469	96	94	2	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	81				102	91			65-140
DCP	90				96	96			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions <input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal		Analyses Requested												Turn Around Time Requested <input checked="" type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal																
Address <u>7012 Beach Blvd, H.B. Ca</u>				<table border="1"> <tr><td>EPA8260B (VOCs & Oxygenates)</td><td>EPA8260B (BTEX & Oxygenates)</td><td>EPA8021B (BTEX & MTBE)</td><td>EPA8015M / 8015B (Gasoline)</td><td>EPA8015M / 8015B (Diesel)</td><td>EPA8081A (Organochlorine Pesticides)</td><td>EPA 8082 (PCBs)</td><td>EPA418.1 (TRPH)</td><td>EPA8015M (Carbon Chain)</td><td>EPA 7000s (Metals)</td><td>CAM 17 Metals</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>													EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals					
EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals																						
Report Attention	Phone # Fax: # <u>877-232-4620</u>	Sampled By <u>Brian Bauer</u>																														
Project No./ Name	Project Site <u>Sunkist Ontario</u>																															

Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	Analyses Requested												Remarks
		Date	Time				EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals		
SPC-CC-44	B10J043-1	10/29/10	11:50am	soil							X								
SPC-CC-45	↓ -2	10/25/10	11:45am	↓							X								

Relinquished By <u>Brian Bauer</u>	Company <u>BEC</u>	Date <u>10/29/10</u>	Time <u>12:20pm</u>	Received By <u>[Signature]</u>	Company <u>ABC Labs</u>	Date <u>10/25/10</u>	Time <u>12:20PM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code: DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/27/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/26/2010
Lab Job No.: B10J045

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/26/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J045
Project:	Sunkist	Date Sampled:	10/26/2010
Project Site:	Sunkist, Ontario	Date Received:	10/26/2010
Matrix:	Soil	Date Extracted:	10/26/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/26/2010
Batch No.:	1026-PCB-S	Date Reported:	10/27/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		10	1			
LAB SAMPLE I.D.		B10J045-1	Method Blank			
CLIENT SAMPLE I.D.		SPC-CC-46				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	6460	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		112	112			
Decachlorobiphenyl		95	105			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1026-PCB-S

Lab Job No.: B10J045
Lab Sample ID: LCS
Date Analyzed: 10/26/2010
Date Reported: 10/27/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	485	478	97	96	1	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	112				115	120			65-140
DCP	105				126	131			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions <input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal	Analyses Requested										Turn Around Time Requested <input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal																						
Address 17011 Beach Blvd, HB, CA			<table border="1"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B (BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td rowspan="2">PAH by 8270 SIM</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>										EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	PAH by 8270 SIM											
EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)												EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	PAH by 8270 SIM													
Report Attention	Phone # 877-232-4620 Fax: #	Sampled By Willy P.																																	
Project No./ Name	Project Site Sunkist																																		

Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	PAH by 8270 SIM	Remarks
		Date	Time																
B15-B-1A	B10J045	10/26/10	8:00	Soil	Ice														Hold
B15-B-1B			8:00																
B15-B-2			8:10																
B15-B-3A			8:20																
B15-B-3B			8:20																
B15-B-4			8:25																
B15-B-5			8:30																
L-62-1			1:40																Normal Hold
L-62-2	B10J045-1		1:30				X			X	X		X		X				Normal
L-62-3			1:35																Hold
SPC-CC-46	-2		2:33										X						Rush
TS-1A	-3		2:40										X						Normal
RR-1			2:45																Hold

Relinquished By Willy Parosh	Company BEC	Date 10/26/10	Time 3:13PM	Received By [Signature]	Company ABC	Date 10/26/10	Time 3:13PM	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product, Preservative Code: IC=Ice, HC=HCl, HN=HNO3, SH=NaOH, ST=Na2S2O3, HS=H2SO4, * Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST=Steel Tube, B=Brass Tube, P=Plastic Bottle, V=VOA Vial, E=EnCore

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/29/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/26/2010
Lab Job No.: B10J045A

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/26/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 1028-VOCS

Lab Job No.: B10J045A
 Date Sampled: 10/26/2010
 Date Received: 10/26/2010
 Date Analyzed: 10/28/2010
 Date Reported: 10/29/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			10/28/10	10/28/10		
Dilution Factor			1	1		
Lab Sample I.D.			B10J045-1	Method Blank		
Client Sample I.D.			L-62-2			
Compound	MDL	RL				
Dichlorodifluoromethane	0.0018	0.005	ND	ND		
Chloromethane	0.0018	0.005	ND	ND		
Vinyl Chloride	0.0018	0.005	ND	ND		
Bromomethane	0.0018	0.005	ND	ND		
Chloroethane	0.0018	0.005	ND	ND		
Trichlorofluoromethane	0.0018	0.005	ND	ND		
1,1-Dichloroethene	0.0018	0.005	ND	ND		
Carbon disulfide	0.0018	0.005	ND	ND		
Methylene chloride	0.0018	0.005	ND	ND		
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND		
1,1-Dichloroethane	0.0018	0.005	ND	ND		
2,2-Dichloropropane	0.0018	0.005	ND	ND		
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND		
Bromochloromethane	0.0018	0.005	ND	ND		
Chloroform	0.0018	0.005	ND	ND		
1,1,1-Trichloroethane	0.0018	0.005	ND	ND		
Vinyl acetate	0.0018	0.005	ND	ND		
Carbontetrachloride	0.0018	0.005	ND	ND		
1,1-Dichloropropene	0.0018	0.005	ND	ND		
1,2-Dichloroethane	0.0018	0.005	ND	ND		
Benzene	0.001	0.002	ND	ND		
Trichloroethene	0.0018	0.005	ND	ND		
1,2-Dichloropropane	0.0018	0.005	ND	ND		
Methyl methacrylate	0.0018	0.005	ND	ND		
Dibromomethane	0.0018	0.005	ND	ND		
Bromodichloromethane	0.0018	0.005	ND	ND		
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND		
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND		
Toluene	0.001	0.002	ND	ND		
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND		
Ethylmethacrylate	0.0018	0.005	ND	ND		
1,1,2-Trichloroethane	0.0018	0.005	ND	ND		
Dibromochloromethane	0.0018	0.005	ND	ND		
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND		
Tetrachloroethene	0.0018	0.005	ND	ND		
1,3-Dichloropropane	0.0018	0.005	ND	ND		
Chlorobenzene	0.0018	0.005	ND	ND		

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 1028-VOCS

Lab Job No.: B10J045A
 Date Sampled: 10/26/2010
 Date Received: 10/26/2010
 Date Analyzed: 10/28/2010
 Date Reported: 10/29/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		10/28/10	10/28/10		
Dilution Factor		1	1		
Lab Sample I.D.		B10J045-1	Method Blank		
Client Sample I.D.		L-62-2			
Compound	MDL	RL			
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	
Total Xylene	0.002	0.004	ND	ND	
Styrene	0.0018	0.005	ND	ND	
Bromoform	0.0018	0.005	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	
Acetone	0.025	0.050	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	
MTBE	0.0018	0.005	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	
TAME	0.0018	0.005	ND	ND	
t-Butanol	0.010	0.020	ND	ND	
Ethanol	0.25	0.5	ND	ND	
Surrogate Recovery (%) QC Limit 70-130					
1,2-Dichloroethane-d4			89	110	
Toluene-d8			82	96	
4-Bromofluorobenzene			95	98	

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10J045A
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	10/28/2010
Batch No.:	1028-VOCS	Date Reported:	10/29/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.019	0.021	95	105	10	≤20	80-120
Benzene	ND	0.020	0.021	0.020	105	100	5	≤20	80-120
Trichloroethene	ND	0.020	0.020	0.019	100	95	5	≤20	80-120
Toluene	ND	0.020	0.018	0.021	90	105	15	≤20	80-120
Chlorobenzene	ND	0.020	0.017	0.018	85	90	6	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	110				95	102			70-130
Toluene-d8	96				89	92			70-130
4-Bromofluorobenzene	98				91	115			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J045A
Project:	Sunkist	Date Sampled:	10/26/2010
Project Site:	Sunkist, Ontario	Date Received:	10/26/2010
Matrix:	Soil	Date Analyzed:	10/28/2010
Batch No.:	AJ28-GS (TPH-G)	Date Analyzed:	10/28/2010
Batch No.:	BJ28-DS (TPH-D)	Date Reported:	10/29/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%)	Surrogate(%)
		C4-C12	C12-C24	C24-C40	For Gasoline	For Diesel
	RL	0.1	10	50		
L-62-2	B10J045-1	ND	10.9	ND	91	89

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: AJ28-GS (TPH-G)

Lab Job No.: B10J045A
Lab Sample ID: LCS
Date Analyzed: 10/28/2010
Date Reported: 10/29/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	1.1	1.05	110	105	5	≤20	80-120
Surrogate (%)	96				102	114			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel)

Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10J045A
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	10/28/2010
Batch No.:	BJ28-DS (TPH-D)	Date Reported:	10/29/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	415	406	83	81	2	≤20	80-120
Surrogate (%)	92				87	92			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J045A
Project:	Sunkist	Date Sampled:	10/26/2010
Project Site:	Sunkist, Ontario	Date Received:	10/26/2010
Matrix:	Soil	Date Extracted:	10/26/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/26/2010
Batch No.:	1026-PES-S	Date Reported:	10/29/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1		
LAB SAMPLE I.D.		B10J045-1	Method Blank		
CLIENT SAMPLE I.D.		L-62-2			
COMPOUND	RL				
α-BHC	5	ND	ND		
γ-BHC	5	ND	ND		
Heptachlor	5	ND	ND		
Aldrin	5	ND	ND		
β-BHC	5	ND	ND		
δ-BHC	5	ND	ND		
α-Chlordane	5	ND	ND		
γ-Chlordane	5	ND	ND		
Heptachlor Epoxide	5	ND	ND		
Endosulfan I	5	ND	ND		
4,4'-DDE	5	ND	ND		
Dieldrin	5	ND	ND		
Endrin	5	ND	ND		
Endosulfan II	5	ND	ND		
4,4'-DDD	5	ND	ND		
4,4'-DDT	5	ND	ND		
Endrin Aldehyde	5	ND	ND		
Endosulfan Sulfate	5	ND	ND		
Methoxychlor	20	ND	ND		
Endrin Ketone	10	ND	ND		
Technical Chlordane	25	ND	ND		
Toxaphene	100	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140			
2,4,5,6-Tetrachloro-m-xylene		112	112		
Decachlorobiphenyl		95	105		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1026-PES-S

Lab Job No.: B10J045A
Lab Sample ID: LCS
Date Analyzed: 10/26/2010
Date Reported: 10/29/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	19.2	18.1	96	91	6	≤30	50-150
Heptachlor	ND	20	18.1	17.5	91	88	3	≤30	50-150
Aldrin	ND	20	17.3	19.2	87	96	10	≤30	50-140
Dieldrin	ND	40	35.5	32.5	89	81	9	≤30	70-130
Endrin	ND	40	36.2	33.1	91	83	9	≤30	70-150
4,4'-DDT	ND	40	38.6	36.8	97	92	5	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	112				91	85			65-140
DCP	105				89	93			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J045A
Project:	Sunkist	Date Sampled:	10/26/2010
Project Site:	Sunkist, Ontario	Date Received:	10/26/2010
Matrix:	Soil	Date Extracted:	10/26/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/26/2010
Batch No.:	1026-PCB-S	Date Reported:	10/29/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	7.5	1		
LAB SAMPLE I.D.		B10J045-1	B10J045-3	Method Blank		
CLIENT SAMPLE I.D.		L-62-2	TS-1A			
COMPOUND	RL					
PCB-1016	25	ND	ND	ND		
PCB-1221	50	ND	ND	ND		
PCB-1232	25	ND	ND	ND		
PCB-1242	25	ND	ND	ND		
PCB-1248	25	ND	ND	ND		
PCB-1254	25	ND	3930	ND		
PCB-1260	25	ND	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		112	108	112		
Decachlorobiphenyl		95	113	105		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1026-PCB-S

Lab Job No.: B10J045A
Lab Sample ID: LCS
Date Analyzed: 10/26/2010
Date Reported: 10/29/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	485	478	97	96	1	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	112				115	120			65-140
DCP	105				126	131			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J045A
Project:	Sunkist	Date Sampled:	10/26/2010
Project Site:	Sunkist, Ontario	Date Received:	10/26/2010
Matrix:	Soil	Date Digested:	10/28/2010
Digestion Method:	3050B	Date Analyzed:	10/28/2010
Batch No.:	1028-MTS	Date Reported:	10/29/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10J045-1			Report Limit
		L-62-2			
Antimony (Sb)	6010B	ND			10
Arsenic (As)	6010B	2.19			0.5
Barium (Ba)	6010B	23.4			5.0
Beryllium (Be)	6010B	ND			2.5
Cadmium (Cd)	6010B	ND			2.5
Chromium (Cr)	6010B	23.1			2.5
Cobalt (Co)	6010B	4.89			2.5
Copper (Cu)	6010B	8.36			2.5
Lead (Pb)	6010B	2.99			2.5
Mercury (Hg)	7471A	ND			0.1
Molybdenum (Mo)	6010B	ND			5.0
Nickel (Ni)	6010B	6.32			2.5
Selenium (Se)	6010B	ND			0.5
Silver (Ag)	6010B	ND			2.5
Thallium (Tl)	6010B	ND			2.5
Vanadium (V)	6010B	25.2			5.0
Zinc (Zn)	6010B	21.1			2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10J045A
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	10/28/2010
Batch No.:	1028-MTS	Date Reported:	10/29/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	10	9.76	8.41	98	84	15	≤20	80-120
Arsenic (As)	6010B	ND	10	10.3	11.1	103	111	7	≤20	80-120
Barium (Ba)	6010B	ND	10	9.16	9.12	92	91	0	≤20	80-120
Beryllium (Be)	6010B	ND	10	9.45	9.26	95	93	2	≤20	80-120
Cadmium (Cd)	6010B	ND	10	10.6	11.9	106	119	12	≤20	80-120
Chromium (Cr)	6010B	ND	10	9.44	9.76	94	98	3	≤20	80-120
Cobalt (Co)	6010B	ND	10	10.7	11.3	107	113	5	≤20	80-120
Copper (Cu)	6010B	ND	10	8.20	8.05	82	81	2	≤20	80-120
Lead (Pb)	6010B	ND	10	9.92	9.40	99	94	5	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.82	1.89	91	95	4	≤20	80-120
Molybdenum (Mo)	6010B	ND	10	9.9	9.28	99	93	6	≤20	80-120
Nickel (Ni)	6010B	ND	10	9.94	9.75	99	98	2	≤20	80-120
Selenium (Se)	6010B	ND	10	10.1	9.53	101	95	6	≤20	80-120
Silver (Ag)	6010B	ND	10	9.65	10.5	97	105	8	≤20	80-120
Thallium (Tl)	6010B	ND	10	8.90	8.15	89	82	9	≤20	80-120
Vanadium (V)	6010B	ND	10	9.67	9.75	97	98	1	≤20	80-120
Zinc (Zn)	6010B	ND	10	10.0	9.31	100	93	7	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J045A
Project :	Sunkist	Date Sampled:	10/26/2010
Project Site:	Sunkist, Ontario	Date Received:	10/26/2010
Matrix:	Soil	Date Extracted:	10/28/2010
Extraction Method:	3550B	Date Analyzed:	10/28/2010
Batch No.:	1028-SVOCS	Date Reported:	10/29/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor	1			
Lab Sample I.D.	B10J045-1			
Client Sample I.D.	L-62-2			
Compound	RL			
Naphthalene	0.025	ND		
Acenaphthylene	0.025	ND		
Acenaphthene	0.025	ND		
Fluorene	0.025	ND		
Phenanthrene	0.025	ND		
Anthracene	0.025	ND		
Fluoranthene	0.025	ND		
Pyrene	0.025	ND		
Benzo (a) anthracene	0.025	ND		
Chrysene	0.025	ND		
Benzo (b) fluoranthene	0.025	ND		
Benzo (k) fluoranthene	0.025	ND		
Benzo (a) pyrene	0.025	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND		
Dibenzo(a,h)anthracene	0.025	ND		
Benzo(g,h,i)perylene	0.025	ND		
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		75		
2-Fluorobiphenyl		80		
p-Terphenyl-d14		79		

ND: Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10J045A
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	10/28/2010
Batch No.:	1028-SVOCS	Date Reported:	10/29/2010

MB/LCS/LCSD Report

Unit: mg/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.17	0.19	68	76	11	≤30	50-150
Acenaphthylene	ND	0.25	0.18	0.17	72	68	6	≤30	50-150
Acenaphthene	ND	0.25	0.20	0.18	80	72	11	≤30	50-150
Fluorene	ND	0.25	0.19	0.16	76	64	17	≤30	50-150
Phenanthrene	ND	0.25	0.16	0.17	64	68	6	≤30	50-150
Anthracene	ND	0.25	0.17	0.18	68	72	6	≤30	50-150
Fluoranthene	ND	0.25	0.18	0.19	72	76	5	≤30	50-150
Pyrene	ND	0.25	0.16	0.15	64	60	6	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.15	0.17	60	68	13	≤30	50-150
Chrysene	ND	0.25	0.18	0.19	72	76	5	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.20	0.17	80	68	16	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.19	0.18	76	72	5	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.21	0.19	84	76	10	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.18	0.19	72	76	5	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.17	0.16	68	64	6	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.15	0.18	60	72	18	≤30	50-150
Nitrobenzene-d5 %Rec.	89				96	85			50-150
2-Fluorobiphenyl %Rec.	92				86	79			50-150
p-Terphenyl-d14 %Rec.	94				81	76			50-150

ND: Not Detected (Below RL).

CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested												Turn Around Time Requested			
Address 17011 Beach Blvd, HB, CA		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal		EPA8260B (VOCs & Oxygenates) EPA8260B(BTEX & Oxygenates) EPA8021B (BTEX & MTBE) EPA8015M / 8015B (Gasoline) EPA8015M / 8015B (Diesel) EPA8081A (Organochlorine Pesticides) EPA 8082 (PCBs) EPA418.1 (TRPH) EPA8015M (Carbon Chain) EPA 7000s (Metals) CAM 17 Metals PAH by 8270 SIM												<input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal			
Report Attention	Phone # 877-232-4620 Fax: #	Sampled By Willy P.																	
Project No./ Name	Project Site Sunkist															Remarks			
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks	
		Date	Time																
B15-B-1A	B10J045	10/26/10	8:00	Soil	Ice														Hold
B15-B-1B			8:00																
B15-B-2			8:10																
B15-B-3A			8:20																
B15-B-3B			8:20																
B15-B-4			8:25																
B15-B-5			8:30																
L-62-1			1:40																Normal Hold
L-62-2	B10J045-1		1:30				X			X	X	X	X	X					Normal
L-62-3			1:35																Hold
SPC-CC-46	-2		2:33										X						Rush
TS-1A	-3		2:40										X						Normal
RR-1			2:45																Hold

Relinquished By Willy Partosh	Company BEC	Date 10/26/10	Time 3:13PM	Received By [Signature]	Company BEC	Date 10/26/10	Time 3:13PM	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types:	T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

11/3/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/26/2010
Lab Job No.: B10J045B

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/26/10 and analyzed by the following EPA methods:

EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J045B
Project:	Sunkist	Date Sampled:	10/26/2010
Project Site:	Sunkist, Ontario	Date Received:	10/26/2010
Matrix:	Soil	Date Analyzed:	11/2/2010
Batch No.:	AK02-GS (TPH-G)	Date Analyzed:	11/2/2010
Batch No.:	BK02-DS (TPH-D)	Date Reported:	11/3/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%) For Gasoline	Surrogate(%) For Diesel
		C4-C12	C12-C24	C24-C40		
	RL	0.1	10	50		
L-62-1	B10J045-4	ND	122	118	95	78
L-62-3	B10J045-5	ND	825	245	85	72

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10J045B
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	11/2/2010
Batch No.:	AK02-GS (TPH-G)	Date Reported:	11/3/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	0.82	0.87	82	87	6	≤20	80-120
Surrogate (%)	84				78	75			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10J045B
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	11/2/2010
Batch No.:	BK02-DS (TPH-D)	Date Reported:	11/3/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	435	426	87	85	2	≤20	80-120
Surrogate (%)	85				92	94			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J045B
Project:	Sunkist	Date Sampled:	10/26/2010
Project Site:	Sunkist, Ontario	Date Received:	10/26/2010
Matrix:	Soil	Date Extracted:	10/31/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/31/2010
Batch No.:	1031-PCB-S	Date Reported:	11/3/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		2	1	1		
LAB SAMPLE I.D.		B10J045-4	B10J045-5	Method Blank		
CLIENT SAMPLE I.D.		L-62-1	L-62-3			
COMPOUND	RL					
PCB-1016	25	ND	ND	ND		
PCB-1221	50	ND	ND	ND		
PCB-1232	25	ND	ND	ND		
PCB-1242	25	ND	ND	ND		
PCB-1248	25	ND	ND	ND		
PCB-1254	25	294	53.1	ND		
PCB-1260	25	ND	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		91	90	80		
Decachlorobiphenyl		85	87	78		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1031-PCB-S

Lab Job No.: B10J045B
Lab Sample ID: LCS
Date Analyzed: 10/31/2010
Date Reported: 11/3/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	425	456	85	91	7	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	80				89	93			65-140
DCP	78				92	85			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested	
Address 17011 Beach Blvd, HB, CA		<input checked="" type="checkbox"/> Chilled		<input type="checkbox"/> VOCs & Oxygenates <input type="checkbox"/> BTEX & Oxygenates <input type="checkbox"/> BTEX & MTBE <input type="checkbox"/> Gasoline <input type="checkbox"/> Diesel <input type="checkbox"/> Organochlorine Pesticides <input type="checkbox"/> PCBs <input type="checkbox"/> TRPH <input type="checkbox"/> Carbon Chain <input type="checkbox"/> Metals <input type="checkbox"/> CAM 17 Metals PAH by 8270 SIM										<input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal	
Report Attention	Phone # 877-232-4620 Fax: #	Sampled By Willy P.												<input checked="" type="checkbox"/> Intact	
Project No./ Name	Project Site Sunkist														

Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	PAH by 8270 SIM	Remarks	
		Date	Time																	
B15-B-1A	B103045	10/24/10	8:00	Soil	Ice															Hold
B15-B-1B			8:00																	
B15-B-2			8:10																	
B15-B-3A			8:20																	
B15-B-3B			8:20																	
B15-B-4			8:25																	
B15-B-5			8:30																	
L-62-1	-4		1:40																	Hold
L-62-2	B10J045-1		1:30				X			X	X	X	X	X	X	X				Normal
L-62-3	-5		1:35																	Hold
SPC-U-46	-2		2:33										X							Rush
TS-1A	-3		2:40										X							Normal
RR-1			2:45																	Hold

Relinquished By Willy Parrish	Company BEC	Date 10/26/10	Time 3:13PM	Received By <i>[Signature]</i>	Company BEC	Date 10/26/10	Time 3:13PM	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product, Preservative Code: IC=Ice, HC=HCl, HN=HNO3, SH=NaOH, ST=Na2S2O3, HS=H2SO4, * Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST=Steel Tube, B=Brass Tube, P=Plastic Bottle, V=VOA Vial, E=EnCore

O: Requested on 10/30/10 by Mr. Bowyer

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/27/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/27/2010
Lab Job No.: B10J046

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/27/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J046
Project:	Sunkist	Date Sampled:	10/27/2010
Project Site:	Sunkist, Ontario	Date Received:	10/27/2010
Matrix:	Soil	Date Extracted:	10/27/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/27/2010
Batch No.:	1027-PCB-S	Date Reported:	10/28/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		10	1			
LAB SAMPLE I.D.		B10J046-24	Method Blank			
CLIENT SAMPLE I.D.		SPC-CC-47				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	8590	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		112	105			
Decachlorobiphenyl		124	92			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1027-PCB-S

Lab Job No.: B10J046
Lab Sample ID: LCS
Date Analyzed: 10/27/2010
Date Reported: 10/28/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	525	485	105	97	8	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	105				92	81			65-140
DCP	92				85	93			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested																
Address <u>17011 Beach Blvd, HB, CA</u>		<input checked="" type="checkbox"/> Chilled		<table border="1"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B(BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals					<input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal	
EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)											EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals										
Report Attention	Phone # <u>877-232-4620</u> Fax: #	<input checked="" type="checkbox"/> Intact		Project Site <u>Sunkist</u>		Sampled By <u>Willy P.</u>																								
Project No./ Name			<input type="checkbox"/> Sample Seal																											
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container											Remarks													
		Date	Time																											
<u>B12-A</u>	<u>B10J046-1</u>	<u>10/27/10</u>	<u>8:10</u>	<u>Soil</u>													<u>Normal</u>													
<u>B12-B</u>	<u>-2</u>		<u>8:15</u>																											
<u>B12-C</u>	<u>-3</u>		<u>8:25</u>																											
<u>B12-D</u>	<u>-4</u>		<u>8:45</u>																											
<u>B12-E-1</u>	<u>5</u>		<u>8:50</u>																											
<u>B12-E-2</u>	<u>-6</u>		<u>9:00</u>																											
<u>B12-F</u>	<u>-7</u>		<u>9:20</u>																											
<u>B12-G</u>	<u>-8</u>		<u>9:40</u>																											
<u>B12-H-1</u>	<u>-9</u>		<u>9:45</u>																											
<u>B12-H-2</u>	<u>-10</u>		<u>9:50</u>																											
<u>B12-I</u>	<u>-11</u>		<u>10:00</u>																											
<u>B12-J</u>	<u>-12</u>		<u>10:20</u>																											
<u>B12-K</u>	<u>-13</u>		<u>10:25</u>																											
<u>B12-L</u>	<u>-14</u>		<u>11:30</u>																											
<u>B12-M</u>	<u>V -15</u>		<u>11:45</u>																											
Relinquished By <u>Willy Parrish</u>		Company <u>BEC</u>	Date <u>10/27/10</u>	Time <u>2:23</u>	Received By <u>J. Jones</u>		Company <u>ABC Labs</u>	Date <u>2:23</u>	Time <u>10/27/10</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.																				
Relinquished By		Company	Date	Time	Received By		Company	Date	Time																					

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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CHAIN OF CUSTODY

Client Name <u>BEC</u>			Sample Receipt Conditions		Analyses Requested <input type="checkbox"/> VOCs & Oxygenates <input type="checkbox"/> BTEX & Oxygenates <input type="checkbox"/> BTEX & MTBE <input type="checkbox"/> Gasoline <input type="checkbox"/> Diesel <input type="checkbox"/> Organochlorine Pesticides <input type="checkbox"/> PCBs <input type="checkbox"/> TRPH <input type="checkbox"/> Carbon Chain <input type="checkbox"/> Metals <input type="checkbox"/> CAM 17 Metals												Turn Around Time Requested		
Address <u>17011 Beach Blvd, HB, CA</u>			<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal														<input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal		
Report Attention	Phone # <u>877-232-4620</u> Fax: #	Sampled By <u>Willy P.</u>		Project Site <u>Sunkist</u>															
Project No./Name																			
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks	
		Date	Time																
<u>B12-N</u>	<u>B10J04616</u>	<u>10/27/10</u>	<u>11:50</u>	<u>Soil</u>														<u>Normal</u>	
<u>B12-O</u>	<u>-17</u>		<u>12:10</u>																
<u>B12-P</u>	<u>-18</u>		<u>12:15</u>																
<u>B12-Q</u>	<u>-19</u>		<u>12:20</u>																
<u>B12-R</u>	<u>-20</u>		<u>12:30</u>																
<u>B12-S</u>	<u>-21</u>		<u>12:40</u>																
<u>B12-T</u>	<u>-22</u>		<u>1:00</u>																
<u>B12-U</u>	<u>-23</u>		<u>1:15</u>																
<u>SPC-C-47</u>	<u>-24</u>	<u>10/27/10</u>	<u>1:30</u>	<u>Soil</u>														<u>Rush 24hr</u>	
Relinquished By <u>Willy Parritz</u> Company <u>BEC</u>		Date <u>10/27/10</u>	Time <u>2:23</u>	Received By <u>J. Jones</u> Company <u>ABC Labs</u>		Date <u>10/27/10</u>	Time <u>2:23</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.											
Relinquished By _____ Company _____		Date _____	Time _____	Received By _____ Company _____		Date _____	Time _____												

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/29/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/27/2010
Lab Job No.: B10J046A

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/27/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J046A
Project:	Sunkist	Date Sampled:	10/27/2010
Project Site:	Sunkist, Ontario	Date Received:	10/27/2010
Matrix:	Solid	Date Extracted:	10/28/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/28/2010
Batch No.:	1028-PCB-S	Date Reported:	10/29/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B10J046-1	B10J046-2	B10J046-3	B10J046-4	B10J046-5
CLIENT SAMPLE I.D.		B12-A	B12-B	B12-C	B12-D	B12-E-1
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	204	340	182	ND	ND
PCB-1260	25	61.5	86.5	90.3	ND	ND
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		126	120	105	91	117
Decachlorobiphenyl		88	114	121	86	120

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J046A
Project:	Sunkist	Date Sampled:	10/27/2010
Project Site:	Sunkist, Ontario	Date Received:	10/27/2010
Matrix:	Solid	Date Extracted:	10/28/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/28/2010
Batch No.:	1028-PCB-S	Date Reported:	10/29/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B10J046-6	B10J046-7	B10J046-8	B10J046-9	B10J046-10
CLIENT SAMPLE I.D.		B12-E-2	B12-F	B12-G	B12-H-1	B12-H-2
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	ND	ND	ND	ND	ND
PCB-1260	25	ND	ND	ND	ND	ND
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		95	108	131	102	95
Decachlorobiphenyl		90	79	126	115	91

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J046A
Project:	Sunkist	Date Sampled:	10/27/2010
Project Site:	Sunkist, Ontario	Date Received:	10/27/2010
Matrix:	Solid	Date Extracted:	10/28/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/28/2010
Batch No.:	1028-PCB-S	Date Reported:	10/29/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B10J046-11	B10J046-12	B10J046-13	B10J046-14	B10J046-15
CLIENT SAMPLE I.D.		B12-I	B12-J	B12-K	B12-L	B12-M
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	ND	ND	68	44.8	102
PCB-1260	25	ND	ND	ND	ND	ND
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		79	76	95	84	78
Decachlorobiphenyl		85	101	87	79	85

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J046A
Project:	Sunkist	Date Sampled:	10/27/2010
Project Site:	Sunkist, Ontario	Date Received:	10/27/2010
Matrix:	Solid	Date Extracted:	10/28/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/28/2010
Batch No.:	1028-PCB-S	Date Reported:	10/29/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B10J046-16	B10J046-17	B10J046-18	B10J046-19	B10J046-20
CLIENT SAMPLE I.D.		B12-N	B12-O	B12-P	B12-Q	B12-R
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	ND	477	ND	194	ND
PCB-1260	25	ND	ND	ND	ND	ND
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		81	85	90	81	75
Decachlorobiphenyl		102	115	78	89	87

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J046A
Project:	Sunkist	Date Sampled:	10/27/2010
Project Site:	Sunkist, Ontario	Date Received:	10/27/2010
Matrix:	Solid	Date Extracted:	10/28/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/28/2010
Batch No.:	1028-PCB-S	Date Reported:	10/29/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		10	10	10	1	
LAB SAMPLE I.D.		B10J046-21	B10J046-22	B10J046-23	Method Blank	
CLIENT SAMPLE I.D.		B12-S	B12-T	B12-U		
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	
PCB-1221	50	ND	ND	ND	ND	
PCB-1232	25	ND	ND	ND	ND	
PCB-1242	25	ND	ND	ND	ND	
PCB-1248	25	ND	ND	ND	ND	
PCB-1254	25	ND	ND	4900	ND	
PCB-1260	25	ND	ND	ND	ND	
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		75	95	87	89	
Decachlorobiphenyl		86	91	93	95	

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10J046A
Project:	Sunkist	Lab Sample ID:	B10J046-5
Matrix:	Solid	Date Analyzed:	10/28/2010
Batch No.:	1028-PCB-S	Date Reported:	10/29/2010

I. MS/MSD Report

Unit: ug/kg

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	485	479	97	96	1	≤30	75-135
Surrogate Recovery (%)									
2,4,5,6-TCMX	117				101	98			65-140
DCP	120				95	102			65-140

II. MB/LCS Report

Unit: ug/kg

Analyte	Method Blank	Report Value	True Value	Rec.%	Accept Limit
PCB-1254	ND	468	500	94	70-130
Surrogate Recovery (%)					
2,4,5,6-TCMX	89	101			65-140
DCP	95	112			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested																
Address 17011 Beach BLVD, HB, CA		<input checked="" type="checkbox"/> Chilled		<table border="1"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B(BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals					<input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal	
EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)											EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals										
Report Attention	Phone # 877-232-4620 Fax: #	<input checked="" type="checkbox"/> Intact		Sampled By Willy P.																										
Project No./ Name	Project Site Sunkist		<input type="checkbox"/> Sample Seal																											
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container											Remarks													
		Date	Time																											
B12-A	B10J046-1	10/27/10	8:10	Soil													Normal													
B12-B	-2		8:15																											
B12-C	-3		8:25																											
B12-D	-4		8:45																											
B12-E-1	-5		8:50																											
B12-E-2	-6		9:00																											
B12-F	-7		9:20																											
B12-G	-8		9:40																											
B12-H-1	-9		9:45																											
B12-H-2	-10		9:50																											
B12-I	-11		10:00																											
B12-J	-12		10:20																											
B12-K	-13		10:25																											
B12-L	-14		11:30																											
B12-M	-15		11:45																											
Relinquished By Willy Parrish		Company BEC	Date 10/27/10	Time 2:23	Received By J. Jones		Company ABC Labs	Date 2:23	Time 10/27/10	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.																				
Relinquished By		Company	Date	Time	Received By		Company	Date	Time																					

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested												Turn Around Time Requested		
Address <u>17011 Beach Blvd, HB, CA</u>		<input checked="" type="checkbox"/> Chilled		EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<input type="checkbox"/> Rush 8 12 24 48 Hours			
Report Attention	Phone # <u>877-232-4620</u> Fax: #	<input checked="" type="checkbox"/> Intact													<input type="checkbox"/> Normal			
Project No./ Name	Project Site <u>Sunkist</u>		<input type="checkbox"/> Sample Seal														Remarks	
Client Sample ID	Lab Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container												
<u>B12-N</u>	<u>B10J04616</u>	<u>10/27/10</u>	<u>11:50</u>	<u>Soil</u>													<u>Normal</u>	
<u>B12-O</u>	<u>-17</u>		<u>12:10</u>															
<u>B12-P</u>	<u>-18</u>		<u>12:15</u>															
<u>B12-Q</u>	<u>-19</u>		<u>12:20</u>															
<u>B12-R</u>	<u>-20</u>		<u>12:30</u>															
<u>B12-S</u>	<u>-21</u>		<u>12:40</u>															
<u>B12-T</u>	<u>-22</u>		<u>1:00</u>															
<u>B12-U</u>	<u>-23</u>		<u>1:15</u>															
<u>SPC-C-47</u>	<u>-24</u>	<u>10/27/10</u>	<u>1:30</u>	<u>Soil</u>													<u>Rush 24hr</u>	
Relinquished By <u>Willy Parritz</u> Company <u>BEC</u>		Date <u>10/27/10</u>	Time <u>2:23</u>	Received By <u>J. Jones</u> Company <u>ABC Labs</u>		Date <u>10/27/10</u>	Time <u>2:23</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.										
Relinquished By _____ Company _____		Date _____	Time _____	Received By _____ Company _____		Date _____	Time _____											

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/29/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/28/2010
Lab Job No.: B10J060

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/28/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J060
Project:	Sunkist	Date Sampled:	10/28/2010
Project Site:	Sunkist, Ontario	Date Received:	10/28/2010
Matrix:	Soil	Date Extracted:	10/28/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/28/2010
Batch No.:	1028-PCB-S1	Date Reported:	10/29/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		5	1			
LAB SAMPLE I.D.		B10J060-1	Method Blank			
CLIENT SAMPLE I.D.		SPC-CC-48				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	5030	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		68	95			
Decachlorobiphenyl		78	110			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1028-PCB-S1

Lab Job No.: B10J060
Lab Sample ID: LCS
Date Analyzed: 10/28/2010
Date Reported: 10/29/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	452	498	90	100	10	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	95				85	92			65-140
DCP	110				94	86			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name: <u>BEC</u>		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested																
Address: <u>17011 Beach Blvd, HB, CA</u>		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal		<table border="1" style="width:100%; text-align: center; font-size: small;"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B(BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals					<input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal	
EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)													EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals								
Report Attention	Phone # <u>877-232-4620</u> Fax: #	Sampled By: <u>Willy P.</u>		Project No./ Name		Project Site: <u>Sunkist</u>																								
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container											Remarks													
		Date	Time																											
<u>B31-A</u>		<u>10/28/10</u>	<u>8:20</u>	<u>Soil</u>													<u>Hold</u>													
<u>B31-B</u>			<u>8:22</u>																											
<u>B31-C</u>			<u>8:25</u>																											
<u>B31-D</u>			<u>8:28</u>																											
<u>B31-E</u>			<u>8:35</u>																											
<u>B31-F</u>			<u>8:45</u>																											
<u>B31-G-1</u>			<u>8:50</u>																											
<u>B31-G-2</u>			<u>8:55</u>																											
<u>B31-H</u>			<u>9:00</u>																											
<u>B31-I</u>			<u>9:10</u>																											
<u>B31-J-1</u>			<u>9:15</u>																											
<u>B31-J-2</u>			<u>9:20</u>																											
<u>B31-K</u>			<u>9:25</u>																											
<u>B31-L</u>			<u>9:55</u>																											
<u>B31-M</u>			<u>10:00</u>																											
Relinquished By: <u>Willy Parrish</u>		Company: <u>BEC</u>	Date: <u>10/28/10</u>	Time: <u>3:55</u>	Received By: <u>[Signature]</u>		Company: <u>ABC</u>	Date: <u>10/28/10</u>	Time: <u>3:55</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.																				
Relinquished By:		Company:	Date:	Time:	Received By:		Company:	Date:	Time:																					

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested		
Address <u>17011 Beach Blvd, HB, CA</u>		<input checked="" type="checkbox"/> Chilled		<input type="checkbox"/> VOCs & Oxygenates <input type="checkbox"/> BTEX & Oxygenates <input type="checkbox"/> BTEX & MTBE <input type="checkbox"/> Gasoline <input type="checkbox"/> Diesel <input type="checkbox"/> Organochlorine Pesticides <input type="checkbox"/> PCBs <input type="checkbox"/> TRPH <input type="checkbox"/> Carbon Chain <input type="checkbox"/> Metals <input type="checkbox"/> CAM 17 Metals										<input type="checkbox"/> Rush 8 12 24 48 Hours		
Report Attention	Phone # <u>877-232-4620</u> Fax: #	<input checked="" type="checkbox"/> Intact												<input type="checkbox"/> Normal		
Project No./ Name	Project Site <u>Sunkist</u>		<input type="checkbox"/> Sample Seal													

Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks	
		Date	Time																
B31-N		10/28/10	10:05	Soil															Hold
B31-O			10:10																
B31-P			11:30																
B31-Q			11:40																
B31-R			11:45																
B31-S			12:00																
B31-T			12:10																
B31-U			12:15																
B31-V			1:00																
B31-W			1:15																
B31-X			1:30																
B31-Y			1:50																
SPC-CC-48	B103060-1	10/28/10	2:00	Soil															Rush

Relinquished By <u>Willy Parritz</u>	Company <u>BEC</u>	Date <u>10/28/10</u>	Time <u>3:55</u>	Received By <u>[Signature]</u>	Company <u>[Signature]</u>	Date <u>10/28/10</u>	Time <u>3:55</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

11/4/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/28/2010
Lab Job No.: B10J060A

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/28/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J060A
Project:	Sunkist	Date Sampled:	10/28/2010
Project Site:	Sunkist, Ontario	Date Received:	10/28/2010
Matrix:	Solid	Date Extracted:	11/2/2010
Extraction Method:	EPA 3550B	Date Analyzed:	11/2/2010
Batch No.:	1102-PCB-S1	Date Reported:	11/4/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	5	1	1	1
LAB SAMPLE I.D.		Method	B10J060-2	B10J060-3	B10J060-4	B10J060-5	B10J060-6
CLIENT SAMPLE I.D.		Blank	B31-A	B31-B	B31-C	B31-D	B31-E
COMPOUND	RL						
PCB-1016	25	ND	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND	ND
PCB-1254	25	ND	211	125	71.2	155	ND
PCB-1260	25	ND	ND	1430	511	221	47.9
Surrogate Recovery (%C Limi 65-140							
2,4,5,6-Tetrachloro-m-xylene		81	78	84	81	95	84
Decachlorobiphenyl		92	86	79	92	112	79

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J060A
Project:	Sunkist	Date Sampled:	10/28/2010
Project Site:	Sunkist, Ontario	Date Received:	10/28/2010
Matrix:	Solid	Date Extracted:	11/2/2010
Extraction Method:	EPA 3550B	Date Analyzed:	11/2/2010
Batch No.:	1102-PCB-S1	Date Reported:	11/4/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	2	5	5
LAB SAMPLE I.D.		B10J060A-7	B10J060A-8	B10J060A-9	B10J060A-10	B10J060A-11
CLIENT SAMPLE I.D.		B31-F	B31-G-1	B31-G-2	B31-H	B31-I
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	259	419	145	25.8	268
PCB-1260	25	60.9	ND	142	ND	165
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		91	86	76	81	80
Decachlorobiphenyl		82	90	92	85	75

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J060A
Project:	Sunkist	Date Sampled:	10/28/2010
Project Site:	Sunkist, Ontario	Date Received:	10/28/2010
Matrix:	Solid	Date Extracted:	11/2/2010
Extraction Method:	EPA 3550B	Date Analyzed:	11/2/2010
Batch No.:	1102-PCB-S2	Date Reported:	11/4/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B10J060-12	B10J060-13	B10J060-14	B10J060-15	B10J060-16
CLIENT SAMPLE I.D.		B31-J-1	B31-J-2	B31-K	B31-L	B31-M
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	ND	ND	116	150	111
PCB-1260	25	ND	ND	127	ND	ND
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		101	87	92	88	79
Decachlorobiphenyl		115	89	84	92	85

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J060A
Project:	Sunkist	Date Sampled:	10/28/2010
Project Site:	Sunkist, Ontario	Date Received:	10/28/2010
Matrix:	Solid	Date Extracted:	11/2/2010
Extraction Method:	EPA 3550B	Date Analyzed:	11/2/2010
Batch No.:	1102-PCB-S2	Date Reported:	11/4/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B10J060-17	B10J060-18	B10J060-19	B10J060-20	B10J060-21
CLIENT SAMPLE I.D.		B31-N	B31-O	B31-P	B31-Q	B31-R
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	1070	51.3	329	288	417
PCB-1260	25	157	ND	ND	ND	ND
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		90	93	102	86	75
Decachlorobiphenyl		88	86	96	112	86

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J060A
Project:	Sunkist	Date Sampled:	10/28/2010
Project Site:	Sunkist, Ontario	Date Received:	10/28/2010
Matrix:	Solid	Date Extracted:	11/2/2010
Extraction Method:	EPA 3550B	Date Analyzed:	11/2/2010
Batch No.:	1102-PCB-S2	Date Reported:	11/4/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	5	1	5
LAB SAMPLE I.D.		B10J060-22	B10J060-23	B10J060-24	B10J060-25	B10J060-26
CLIENT SAMPLE I.D.		B31-S	B31-T	B31-U	B31-V	B31-W
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	180	121	3800	463	941
PCB-1260	25	ND	ND	ND	ND	ND
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		89	84	94	113	74
Decachlorobiphenyl		95	99	108	89	90

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J060A
Project:	Sunkist	Date Sampled:	10/28/2010
Project Site:	Sunkist, Ontario	Date Received:	10/28/2010
Matrix:	Solid	Date Extracted:	11/2/2010
Extraction Method:	EPA 3550B	Date Analyzed:	11/2/2010
Batch No.:	1102-PCB-S2	Date Reported:	11/4/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		5	25	1		
LAB SAMPLE I.D.		B10J060-27	B10J060-28	Method Blank		
CLIENT SAMPLE I.D.		B31-X	B31-Y			
COMPOUND	RL					
PCB-1016	25	ND	ND	ND		
PCB-1221	50	ND	ND	ND		
PCB-1232	25	ND	ND	ND		
PCB-1242	25	ND	ND	ND		
PCB-1248	25	ND	ND	ND		
PCB-1254	25	511	ND	ND		
PCB-1260	25	ND	ND	ND		
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		101	115	80		
Decachlorobiphenyl		89	126	75		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1102-PCB-S1

Lab Job No.: B10L060
Lab Sample ID: LCS
Date Analyzed: 11/2/2010
Date Reported: 11/3/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	485	478	97	96	1	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	81				101	114			65-140
DCP	92				125	95			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
 Project: Sunkist
 Matrix: Solid
 Batch No.: 1102-PCB-S2

Lab Job No.: B10J060A
 Lab Sample ID: B10J060-12
 Date Analyzed: 11/2/2010
 Date Reported: 11/4/2010

I. MS/MSD Report

Unit: ug/kg

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	401	425	80	85	6	≤30	75-135
Surrogate Recovery (%)									
2,4,5,6-TCMX	89				96	86			65-140
DCP	91				82	90			65-140

II. MB/LCS Report

Unit: ug/kg

Analyte	Method Blank	Report Value	True Value	Rec.%	Accept Limit
PCB-1254	ND	455	500	91	70-130
Surrogate Recovery (%)					
2,4,5,6-TCMX	80			91	65-140
DCP	75			86	65-140

ND: Not Detected (Below RL).

MB: Method Blank.



CHAIN OF CUSTODY

Client Name: <u>BEC</u>			Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested												
Address: <u>17011 Beach Blvd, HB, CA</u>			<input checked="" type="checkbox"/> Chilled		EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal											
Report Attention	Phone # <u>877-232-4620</u> Fax: #	Sampled By <u>Willy P.</u>	<input checked="" type="checkbox"/> Intact																								
Project No./ Name	Project Site <u>Sunkist</u>		<input type="checkbox"/> Sample Seal																								
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container											Remarks										
		Date	Time																								
<u>B31-A</u>	<u>B105060-2</u>	<u>10/28/10</u>	<u>8:20</u>	<u>Soil</u>													<u>Hold</u>										
<u>B31-B</u>	<u>-3</u>		<u>8:22</u>																								
<u>B31-C</u>	<u>-4</u>		<u>8:25</u>																								
<u>B31-D</u>	<u>-5</u>		<u>8:28</u>																								
<u>B31-E</u>	<u>-6</u>		<u>8:35</u>																								
<u>B31-F</u>	<u>-7</u>		<u>8:45</u>																								
<u>B31-G-1</u>	<u>-8</u>		<u>8:50</u>																								
<u>B31-G-2</u>	<u>-9</u>		<u>8:55</u>																								
<u>B31-H</u>	<u>-10</u>		<u>9:00</u>																								
<u>B31-I</u>	<u>-11</u>		<u>9:10</u>																								
<u>B31-J-1</u>	<u>-12</u>		<u>9:15</u>																								
<u>B31-J-2</u>	<u>-13</u>		<u>9:20</u>																								
<u>B31-K</u>	<u>-14</u>		<u>9:25</u>																								
<u>B31-L</u>	<u>-15</u>		<u>9:55</u>																								
<u>B31-M</u>	<u>-16</u>		<u>10:00</u>																								

Hold was released by Mr. Brett on 11/10

Relinquished By <u>Willy Parrish</u>	Company <u>BEC</u>	Date <u>10/28/10</u>	Time <u>3:55</u>	Received By <u>W</u>	Company <u>BEC</u>	Date <u>10/28/10</u>	Time <u>3:55</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested										Turn 'Around Time Requested	
Address <u>17011 Beach Blvd, HB, CA</u>		<input checked="" type="checkbox"/> Chilled		<input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal										Remarks	
Report Attention	Phone # <u>877-232-4625</u> Fax: #	<input checked="" type="checkbox"/> Intact													
Project No./ Name	Project Site <u>Sunkist</u>		<input type="checkbox"/> Sample Seal												

Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks	
		Date	Time																
B31-N	B10J060-17	10/28/10	10:05	Soil															Hold
B31-O	-18		10:10																
B31-P	-19		11:30																
B31-Q	-20		11:40																
B31-R	-21		11:45																
B31-S	-22		12:00																
B31-T	-23		12:10																
B31-U	-24		12:15																
B31-V	-25		1:00																
B31-W	-26		1:15																
B31-X	-27		1:30																
B31-Y	-28		1:50																
SPC-CC-48	B10J060-1	10/28/10	2:00	soil															Rush

Relinquished By <u>Willy Harris</u>	Company <u>BEC</u>	Date <u>10/28/10</u>	Time <u>3:55</u>	Received By <u>Willy Harris</u>	Company <u>BEC</u>	Date <u>10/28/10</u>	Time <u>3:55</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

10/29/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/29/2010
Lab Job No.: B10J062

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/29/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J062
Project:	Sunkist	Date Sampled:	10/29/2010
Project Site:	Sunkist, Ontario	Date Received:	10/29/2010
Matrix:	Soil	Date Extracted:	10/30/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/30/2010
Batch No.:	1030-PCB-S	Date Reported:	1/1/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		2	1	1		
LAB SAMPLE I.D.		B10J062-1	B10J062-2	Method Blank		
CLIENT SAMPLE I.D.		B-54-A	SPC-CC-49			
COMPOUND	RL					
PCB-1016	25	ND	ND	ND		
PCB-1221	50	ND	ND	ND		
PCB-1232	25	ND	ND	ND		
PCB-1242	25	ND	ND	ND		
PCB-1248	25	ND	ND	ND		
PCB-1254	25	ND	332	ND		
PCB-1260	25	ND	ND	ND		
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		87	90	85		
Decachlorobiphenyl		72	81	79		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1030-PCB-S

Lab Job No.: B10J062
Lab Sample ID: LCS
Date Analyzed: 10/30/2010
Date Reported: 11/1/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	485	479	97	96	1	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	85				75	89			65-140
DCP	79				81	92			65-140

ND: Not Detected (Below RL).



**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761
Tel: 562-413-8343
Tel/ Fax: 909-923-8628

Page 1 of 2
Lab Job Number B10J062

CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested												Turn Around Time Requested											
Address <u>17022 Beach Blvd. H.B. Co.</u>		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal														EPA8260B (VOCs & Oxygenates)		EPA8260B (BTEX & Oxygenates)		EPA8021B (BTEX & MTBE)		EPA8015M / 8015B (Gasoline)		EPA8015M / 8015B (Diesel)		EPA8081A (Organochlorine Pesticides)	
Report Attention	Phone # Fax: # <u>877-232-4620</u>	Sampled By <u>Bryan Bauer</u>		Project No./ Name		Project Site <u>Sunkist Ontario</u>		Remarks																			

Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks		
		Date	Time																	
B-54-A	B10J062-1	10/24/10	12:53pm	soil									X						normal	
SPC-CC-49	↓ 2	10/24/10	12:20pm	soil									X						rush	

Relinquished By <u>Bryan Bauer</u>	Company <u>BEC</u>	Date <u>10/24/10</u>	Time <u>2:50 pm</u>	Received By <u>[Signature]</u>	Company <u>BEC</u>	Date <u>10/29/10</u>	Time <u>2:50 pm</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code: DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

11/1/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 10/30/2010
Lab Job No.: B10J064

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 10/30/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10J064
Project:	Sunkist	Date Sampled:	10/30/2010
Project Site:	Sunkist, Ontario	Date Received:	10/30/2010
Matrix:	Soil	Date Extracted:	10/30/2010
Extraction Method:	EPA 3550B	Date Analyzed:	10/30/2010
Batch No.:	1030-PCB-S	Date Reported:	11/1/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1			
LAB SAMPLE I.D.		B10J064-1	Method Blank			
CLIENT SAMPLE I.D.		SPC-CC-50				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	444	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		90	85			
Decachlorobiphenyl		86	79			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1030-PCB-S

Lab Job No.: B10J064
Lab Sample ID: LCS
Date Analyzed: 10/30/2010
Date Reported: 11/1/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	485	479	97	96	1	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	85				75	89			65-140
DCP	79				81	92			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested												Turn Around Time Requested															
Address <u>17011 Beach BLVD, HB, CA</u>		<input checked="" type="checkbox"/> Chilled		<table border="1"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B(BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>												EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals					<input checked="" type="checkbox"/> Rush 8 12 <u>24</u> 48 Hours
EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)													EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals									
Report Attention	Phone # <u>877-232-4620</u> Fax: #	<input checked="" type="checkbox"/> Intact														<input type="checkbox"/> Normal															
Project No./ Name	Project Site <u>Sunkist</u>	<input type="checkbox"/> Sample Seal																													
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container													Remarks												
<u>SPC-CC-50</u>	<u>BIOJOB4</u>	<u>10/30/10</u>	<u>1:40</u>	<u>Soil</u>															<u>Rush</u>												

Relinquished By <u>Willy Parrish</u>	Company <u>BEC</u>	Date <u>10/30/10</u>	Time <u>1:52</u>	Received By <u>[Signature]</u>	Company <u>ABC Labs</u>	Date <u>10/30/10</u>	Time <u>1:52</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

11/3/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 11/2/2010
Lab Job No.: B10K004

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 11/2/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10K004
Project:	Sunkist	Date Sampled:	11/2/2010
Project Site:	Sunkist, Ontario	Date Received:	11/2/2010
Matrix:	Soil	Date Extracted:	11/2/2010
Extraction Method:	EPA 3550B	Date Analyzed:	11/2/2010
Batch No.:	1102-PCB-S	Date Reported:	11/3/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1			
LAB SAMPLE I.D.		B10K004-1	Method Blank			
CLIENT SAMPLE I.D.		SPC-CC-51				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	274	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		78	101			
Decachlorobiphenyl		92	92			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1102-PCB-S

Lab Job No.: B10K004
Lab Sample ID: LCS
Date Analyzed: 11/2/2010
Date Reported: 11/3/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	491	478	98	96	3	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	101				85	80			65-140
DCP	92				81	79			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name BEC				Sample Receipt Conditions		Analyses Requested											Turn Around Time Requested					
Address 17011 Beach Blvd, HB, CA				<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal													<input checked="" type="checkbox"/> Rush 8-12 (24) Hours <input type="checkbox"/> Normal					
Report Attention	Phone # 877-232-4620	Sampled By Willy P.		Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks
Project No./ Name	Project Site Sunkist		Date			Time																
				SPC-01-51	B10K004-1	11/2/10	1:00	Soil														Rush

Relinquished By Willy Parish	Company BEC	Date 11/2/10	Time 1:20	Received By [Signature]	Company ABC	Date 11/2/10	Time 1:20	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

11/4/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 11/3/2010
Lab Job No.: B10K007

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 11/3/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10K007
Project:	Sunkist	Date Sampled:	11/3/2010
Project Site:	Sunkist, Ontario	Date Received:	11/3/2010
Matrix:	Soil	Date Extracted:	11/3/2010
Extraction Method:	EPA 3550B	Date Analyzed:	11/3/2010
Batch No.:	1103-PCB-S	Date Reported:	11/4/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		10	1			
LAB SAMPLE I.D.		B10K007-1	Method Blank			
CLIENT SAMPLE I.D.		B12-V				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	944	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		105	85			
Decachlorobiphenyl		112	96			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1103-PCB-S

Lab Job No.: B10K007
Lab Sample ID: LCS
Date Analyzed: 11/3/2010
Date Reported: 11/4/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	465	473	93	95	2	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	85				101	96			65-140
DCP	96				95	112			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name <u>BEC</u>			Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested												
Address <u>17011 Beach Blvd, HB, CA</u>			<input checked="" type="checkbox"/> Chilled		EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal											
Report Attention	Phone # <u>877-232-4620</u>	Fax: #	<input checked="" type="checkbox"/> Intact																							Remarks	
Project No./ Name	Project Site <u>Sunkist</u>		<input type="checkbox"/> Sample Seal																								
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container																					
<u>B12-V</u>	<u>B10K007-1</u>	<u>11/3/10</u>	<u>9:40</u>	<u>Soil</u>																							

Relinquished By <u>Willy P.</u>	Company <u>BEC</u>	Date <u>11/3/10</u>	Time <u>10:30</u>	Received By <u>J. Frank</u>	Company <u>ABC Labs</u>	Date <u>11/3/10</u>	Time <u>10:30</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product, Preservative Code: IC=Ice, HC=HCl, HN=HNO3, SH=NaOH, ST=Na2S2O3, HS=H2SO4, * Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST=Steel Tube, B=Brass Tube, P=Plastic Bottle, V=VOA Vial, E=EnCore

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

12/16/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 12/13/2010
Lab Job No.: B10L023

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 12/13/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 1215-VOCS

Lab Job No.: B10L023
 Date Sampled: 12/13/2010
 Date Received: 12/13/2010
 Date Analyzed: 12/15/2010
 Date Reported: 12/16/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			12/15/10	12/15/10	12/15/10
Dilution Factor			1	1	1
Lab Sample I.D.			B10L023-1	B10L023-2	Method Blank
Client Sample I.D.			B-15-C1	A-6-1	
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	ND
Chloromethane	0.0018	0.005	ND	ND	ND
Vinyl Chloride	0.0018	0.005	ND	ND	ND
Bromomethane	0.0018	0.005	ND	ND	ND
Chloroethane	0.0018	0.005	ND	ND	ND
Trichlorofluoromethane	0.0018	0.005	ND	ND	ND
1,1-Dichloroethene	0.0018	0.005	ND	ND	ND
Carbon disulfide	0.0018	0.005	ND	ND	ND
Methylene chloride	0.0018	0.005	ND	ND	ND
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	ND
1,1-Dichloroethane	0.0018	0.005	ND	ND	ND
2,2-Dichloropropane	0.0018	0.005	ND	ND	ND
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	ND
Bromochloromethane	0.0018	0.005	ND	ND	ND
Chloroform	0.0018	0.005	ND	ND	ND
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	ND
Vinyl acetate	0.0018	0.005	ND	ND	ND
Carbontetrachloride	0.0018	0.005	ND	ND	ND
1,1-Dichloropropene	0.0018	0.005	ND	ND	ND
1,2-Dichloroethane	0.0018	0.005	ND	ND	ND
Benzene	0.001	0.002	ND	ND	ND
Trichloroethene	0.0018	0.005	ND	ND	ND
1,2-Dichloropropane	0.0018	0.005	ND	ND	ND
Methyl methacrylate	0.0018	0.005	ND	ND	ND
Dibromomethane	0.0018	0.005	ND	ND	ND
Bromodichloromethane	0.0018	0.005	ND	ND	ND
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	ND
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	ND
Toluene	0.001	0.002	ND	ND	ND
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	ND
Ethylmethacrylate	0.0018	0.005	ND	ND	ND
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	ND
Dibromochloromethane	0.0018	0.005	ND	ND	ND
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	ND
Tetrachloroethene	0.0018	0.005	ND	ND	ND
1,3-Dichloropropane	0.0018	0.005	ND	ND	ND
Chlorobenzene	0.0018	0.005	ND	ND	ND

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 1215-VOCS

Lab Job No.: B10L023
 Date Sampled: 12/13/2010
 Date Received: 12/13/2010
 Date Analyzed: 12/15/2010
 Date Reported: 12/16/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			12/15/10	12/15/10	12/15/10	
Dilution Factor			1	1	1	
Lab Sample I.D.			B10L023-1	B10L023-2	Method Blank	
Client Sample I.D.			B-15-C1	A-6-1		
Compound	MDL	RL				
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	ND	
Total Xylene	0.002	0.004	ND	ND	ND	
Styrene	0.0018	0.005	ND	ND	ND	
Bromoform	0.0018	0.005	ND	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	ND	
1,1,2,2-Tetrachloroethane	0.0018	0.005	ND	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	ND	
Acetone	0.025	0.050	ND	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	ND	
MTBE	0.0018	0.005	ND	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	ND	
TAME	0.0018	0.005	ND	ND	ND	
t-Butanol	0.010	0.020	ND	ND	ND	
Ethanol	0.25	0.5	ND	ND	ND	
Surrogate Recovery (%) QC Limit 70-130						
1,2-Dichloroethane-d4			91	90	84	
Toluene-d8			95	88	90	
4-Bromofluorobenzene			112	96	92	

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10L023
Project:	Sunkist	Date Sampled:	12/13/2010
Project Site:	Sunkist, Ontario	Date Received:	12/13/2010
Matrix:	Soil	Date Analyzed:	12/15/2010
Batch No.:	AL15-GS (TPH-G)	Date Analyzed:	12/15/2010
Batch No.:	BL15-DS (TPH-D)	Date Reported:	12/16/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%) For Gasoline	Surrogate(%) For Diesel
		C4-C12	C12-C24	C24-C40		
	RL	0.1	10	50		
B-15-C1	B10L023-1	ND	ND	ND	95	84
A-6-1	B10L023-2	ND	ND	ND	90	89

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10L023

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 12/15/2010

Batch No.: AL15-GS (TPH-G)

Date Reported: 12/16/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	0.95	1.02	95	102	7	≤20	80-120
Surrogate (%)	101				95	91			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel)

Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10L023
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	12/15/2010
Batch No.:	BL15-DS (TPH-D)	Date Reported:	12/16/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	425	423	85	85	0	≤20	80-120
Surrogate (%)	90				88	91			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10L023
Project:	Sunkist	Date Sampled:	12/13/2010
Project Site:	Sunkist, Ontario	Date Received:	12/13/2010
Matrix:	Soil	Date Extracted:	12/15/2010
Extraction Method:	EPA 3550B	Date Analyzed:	12/15/2010
Batch No.:	1215-PES-S	Date Reported:	12/16/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1	1		
LAB SAMPLE I.D.		B10L023-1	B10L023-2	Method Blank		
CLIENT SAMPLE I.D.		B-15-C1	A-6-1			
COMPOUND	RL					
α-BHC	5	ND	ND	ND		
γ-BHC	5	ND	ND	ND		
Heptachlor	5	ND	ND	ND		
Aldrin	5	ND	ND	ND		
β-BHC	5	ND	ND	ND		
δ-BHC	5	ND	ND	ND		
α-Chlordane	5	ND	ND	ND		
γ-Chlordane	5	ND	ND	ND		
Heptachlor Epoxide	5	ND	ND	ND		
Endosulfan I	5	ND	ND	ND		
4,4'-DDE	5	ND	ND	ND		
Dieldrin	5	ND	ND	ND		
Endrin	5	ND	ND	ND		
Endosulfan II	5	ND	ND	ND		
4,4'-DDD	5	ND	ND	ND		
4,4'-DDT	5	ND	ND	ND		
Endrin Aldehyde	5	ND	ND	ND		
Endosulfan Sulfate	5	ND	ND	ND		
Methoxychlor	20	ND	ND	ND		
Endrin Ketone	10	ND	ND	ND		
Technical Chlordane	25	ND	ND	ND		
Toxaphene	100	ND	ND	ND		
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		115	104	95		
Decachlorobiphenyl		121	108	89		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1215-PES-S

Lab Job No.: B10L023
Lab Sample ID: LCS
Date Analyzed: 12/15/2010
Date Reported: 12/16/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	15.5	20.8	78	104	29	≤30	50-150
Heptachlor	ND	20	13.8	16.5	69	83	18	≤30	50-150
Aldrin	ND	20	17.9	21.7	90	109	19	≤30	50-140
Dieldrin	ND	40	31.0	37.9	78	95	20	≤30	70-130
Endrin	ND	40	50.0	55.1	125	138	10	≤30	70-150
4,4'-DDT	ND	40	34.3	29.1	86	73	16	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	95				81	78			65-140
DCP	89				86	95			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10L023
Project:	Sunkist	Date Sampled:	12/13/2010
Project Site:	Sunkist, Ontario	Date Received:	12/13/2010
Matrix:	Soil	Date Extracted:	12/15/2010
Extraction Method:	EPA 3550B	Date Analyzed:	12/15/2010
Batch No.:	1215-PCB-S	Date Reported:	12/16/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1			
LAB SAMPLE I.D.		B10L023-1	B10L023-2	Method Blank			
CLIENT SAMPLE I.D.		B-15-C1	A-6-1				
COMPOUND	RL						
PCB-1016	25	ND	ND	ND			
PCB-1221	50	ND	ND	ND			
PCB-1232	25	ND	ND	ND			
PCB-1242	25	ND	ND	ND			
PCB-1248	25	ND	ND	ND			
PCB-1254	25	ND	ND	ND			
PCB-1260	25	ND	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140					
2,4,5,6-Tetrachloro-m-xylene		115	104	95			
Decachlorobiphenyl		121	108	89			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1215-PCB-S

Lab Job No.: B10L023
Lab Sample ID: LCS
Date Analyzed: 12/15/2010
Date Reported: 12/16/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	435	416	87	83	4	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	95				95	89			65-140
DCP	89				102	112			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10L023
Project:	Sunkist	Date Sampled:	12/13/2010
Project Site:	Sunkist, Ontario	Date Received:	12/13/2010
Matrix:	Soil	Date Digested:	12/15/2010
Digestion Method:	3050B	Date Analyzed:	12/16/2010
Batch No.:	1216-MTS	Date Reported:	12/16/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10L023-1	B10L023-2			Report Limit
		B-15-C1	A-6-1			
Antimony (Sb)	6010B	ND	ND			10
Arsenic (As)	6010B	3.76	5.4			0.5
Barium (Ba)	6010B	72.8	53.1			5.0
Beryllium (Be)	6010B	ND	ND			2.5
Cadmium (Cd)	6010B	ND	ND			2.5
Chromium (Cr)	6010B	9.8	20.9			2.5
Cobalt (Co)	6010B	3.86	10.1			2.5
Copper (Cu)	6010B	11.9	18.0			2.5
Lead (Pb)	6010B	9.7	4.33			2.5
Mercury (Hg)	7471A	ND	ND			0.1
Molybdenum (Mo)	6010B	ND	ND			5.0
Nickel (Ni)	6010B	3.59	12.9			2.5
Selenium (Se)	6010B	ND	ND			0.5
Silver (Ag)	6010B	ND	ND			2.5
Thallium (Tl)	6010B	ND	ND			2.5
Vanadium (V)	6010B	33.3	53.2			5.0
Zinc (Zn)	6010B	47.5	39.3			2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10L023
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	12/16/2010
Batch No.:	1216-MTS	Date Reported:	12/16/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	10	8.93	8.39	89	84	6	≤20	80-120
Arsenic (As)	6010B	ND	10	10.0	10.40	100	104	4	≤20	80-120
Barium (Ba)	6010B	ND	10	9.61	9.83	96	98	2	≤20	80-120
Beryllium (Be)	6010B	ND	10	10.2	10.2	102	102	0	≤20	80-120
Cadmium (Cd)	6010B	ND	10	10.2	11.1	102	111	8	≤20	80-120
Chromium (Cr)	6010B	ND	10	10.0	10.5	100	105	5	≤20	80-120
Cobalt (Co)	6010B	ND	10	11.2	11.6	112	116	4	≤20	80-120
Copper (Cu)	6010B	ND	10	8.80	8.40	88	84	5	≤20	80-120
Lead (Pb)	6010B	ND	10	9.46	9.38	95	94	1	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.95	1.86	98	93	5	≤20	80-120
Molybdenum (Mo)	6010B	ND	10	9.45	9.03	95	90	5	≤20	80-120
Nickel (Ni)	6010B	ND	10	10.0	10.4	100	104	4	≤20	80-120
Selenium (Se)	6010B	ND	10	8.93	8.39	89	84	6	≤20	80-120
Silver (Ag)	6010B	ND	10	10.0	10.6	100	106	6	≤20	80-120
Thallium (Tl)	6010B	ND	10	10.2	10.7	102	107	5	≤20	80-120
Vanadium (V)	6010B	ND	10	8.90	8.97	89	90	1	≤20	80-120
Zinc (Zn)	6010B	ND	10	10.4	11.0	104	110	6	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10L023
Project :	Sunkist	Date Sampled:	12/13/2010
Project Site:	Sunkist, Ontario	Date Received:	12/13/2010
Matrix:	Soil	Date Extracted:	12/15/2010
Extraction Method:	3550B	Date Analyzed:	12/15/2010
Batch No.:	1215-SVOCS	Date Reported:	12/16/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor	1	1		
Lab Sample I.D.	B10L023-1	B10L023-2		
Client Sample I.D.	B-15-C1	A-6-1		
Compound	RL			
Naphthalene	0.025	ND	ND	
Acenaphthylene	0.025	ND	ND	
Acenaphthene	0.025	ND	ND	
Fluorene	0.025	ND	ND	
Phenanthrene	0.025	ND	ND	
Anthracene	0.025	ND	ND	
Fluoranthene	0.025	ND	ND	
Pyrene	0.025	ND	ND	
Benzo (a) anthracene	0.025	ND	ND	
Chrysene	0.025	ND	ND	
Benzo (b) fluoranthene	0.025	ND	ND	
Benzo (k) fluoranthene	0.025	ND	ND	
Benzo (a) pyrene	0.025	ND	ND	
Indeno(1,2,3-cd)pyrene	0.025	ND	ND	
Dibenzo(a,h)anthracene	0.025	ND	ND	
Benzo(g,h,i)perylene	0.025	ND	ND	
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		81	91	
2-Fluorobiphenyl		89	85	
p-Terphenyl-d14		92	80	

ND: Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10L023
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	12/15/2010
Batch No.:	1215-SVOCS	Date Reported:	12/16/2010

MB/LCS/LCSD Report

Unit: mg/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.16	0.17	64	68	6	≤30	50-150
Acenaphthylene	ND	0.25	0.17	0.18	68	72	6	≤30	50-150
Acenaphthene	ND	0.25	0.18	0.19	72	76	5	≤30	50-150
Fluorene	ND	0.25	0.21	0.17	84	68	21	≤30	50-150
Phenanthrene	ND	0.25	0.18	0.19	72	76	5	≤30	50-150
Anthracene	ND	0.25	0.19	0.21	76	84	10	≤30	50-150
Fluoranthene	ND	0.25	0.17	0.18	68	72	6	≤30	50-150
Pyrene	ND	0.25	0.16	0.17	64	68	6	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.16	0.19	64	76	17	≤30	50-150
Chrysene	ND	0.25	0.17	0.18	68	72	6	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.19	0.16	76	64	17	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.21	0.17	84	68	21	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.18	0.16	72	64	12	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.19	0.17	76	68	11	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.16	0.15	64	60	6	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.17	0.16	68	64	6	≤30	50-150
Nitrobenzene-d5 %Rec.	91				78	81			50-150
2-Fluorobiphenyl %Rec.	85				85	89			50-150
p-Terphenyl-d14 %Rec.	93				89	86			50-150

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name BEC
 Address 7011 Beach Blvd. H.B. Ca. 92647
 Report Attention BEC Phone # 1-877-232-4620 Sampled By Brian Bauer
 Fax: # 1-877-232-4620
 Project No./ Name Sunkist Ontario

Sample Receipt Conditions
 Chilled
 Intact
 Sample Seal

Analyses Requested

EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals
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Turn Around Time Requested
 Rush 8 12 24 48 Hours
 Normal

Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	Analyses Requested											Remarks			
		Date	Time				EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals				
B-15-C2	B10L023-1	12/13/10	11:40am	soil	ICE	1-ST	X					X	X		X		X				
A-6-1	✓-2	12/13/10	2:18pm	soil	ICE	1-ST	X					X	X		X		X				

Relinquished By <u>Brian Bauer</u>	Company <u>BEC</u>	Date <u>12/13/10</u>	Time <u>3:23pm</u>	Received By <u>[Signature]</u>	Company <u>ABC Labs</u>	Date <u>12/13/10</u>	Time <u>3:23PM</u>
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Note: Samples are discarded 30 days after results are reported unless other arrangements are made.

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product, Preservative Code: IC=Ice, HC=HCl, HN=HNO3, SH=NaOH, ST=Na2S2O3, HS=H2SO4, * Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST= Steel Tube, B= Brass Tube, P=Plastic Bottle, V=VOA Vial, E= EnCore

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

12/16/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 12/15/2010
Lab Job No.: B10L030

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 12/15/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 1215-VOCS

Lab Job No.: B10L030
 Date Sampled: 12/15/2010
 Date Received: 12/15/2010
 Date Analyzed: 12/15/2010
 Date Reported: 12/16/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			12/15/10	12/15/10	
Dilution Factor			1	1	
Lab Sample I.D.			B10L030-1	Method Blank	
Client Sample I.D.			B-3-1		
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	
Chloromethane	0.0018	0.005	ND	ND	
Vinyl Chloride	0.0018	0.005	ND	ND	
Bromomethane	0.0018	0.005	ND	ND	
Chloroethane	0.0018	0.005	ND	ND	
Trichlorofluoromethane	0.0018	0.005	ND	ND	
1,1-Dichloroethene	0.0018	0.005	ND	ND	
Carbon disulfide	0.0018	0.005	ND	ND	
Methylene chloride	0.0018	0.005	ND	ND	
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	
1,1-Dichloroethane	0.0018	0.005	ND	ND	
2,2-Dichloropropane	0.0018	0.005	ND	ND	
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	
Bromochloromethane	0.0018	0.005	ND	ND	
Chloroform	0.0018	0.005	ND	ND	
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	
Vinyl acetate	0.0018	0.005	ND	ND	
Carbontetrachloride	0.0018	0.005	ND	ND	
1,1-Dichloropropene	0.0018	0.005	ND	ND	
1,2-Dichloroethane	0.0018	0.005	ND	ND	
Benzene	0.001	0.002	ND	ND	
Trichloroethene	0.0018	0.005	ND	ND	
1,2-Dichloropropane	0.0018	0.005	ND	ND	
Methyl methacrylate	0.0018	0.005	ND	ND	
Dibromomethane	0.0018	0.005	ND	ND	
Bromodichloromethane	0.0018	0.005	ND	ND	
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Toluene	0.001	0.002	ND	ND	
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Ethylmethacrylate	0.0018	0.005	ND	ND	
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	
Dibromochloromethane	0.0018	0.005	ND	ND	
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	
Tetrachloroethene	0.0018	0.005	ND	ND	
1,3-Dichloropropane	0.0018	0.005	ND	ND	
Chlorobenzene	0.0018	0.005	ND	ND	

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 1215-VOCS

Lab Job No.: B10L030
 Date Sampled: 12/15/2010
 Date Received: 12/15/2010
 Date Analyzed: 12/15/2010
 Date Reported: 12/16/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		12/15/10	12/15/10		
Dilution Factor		1	1		
Lab Sample I.D.		B10L030-1	Method Blank		
Client Sample I.D.		B-3-1			
Compound	MDL	RL			
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	
Total Xylene	0.002	0.004	ND	ND	
Styrene	0.0018	0.005	ND	ND	
Bromoform	0.0018	0.005	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	
Acetone	0.025	0.050	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	
MTBE	0.0018	0.005	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	
TAME	0.0018	0.005	ND	ND	
t-Butanol	0.010	0.020	ND	ND	
Ethanol	0.25	0.5	ND	ND	
Surrogate Recovery (%) QC Limit 70-130					
1,2-Dichloroethane-d4			89	84	
Toluene-d8			94	90	
4-Bromofluorobenzene			101	92	

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1215-VOCS

Lab Job No.: B10L030
Lab Sample ID: LCS
Date Analyzed: 12/15/2010
Date Reported: 12/16/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method	Spike Conc.	LCS	LCSD	LCS	LCSD	%RPD	%RPD	%Rec. Accept Limit
	Blank				%Rec.	%Rec.		Accept Limit	
1,1-Dichloroethene	ND	0.020	0.016	0.016	80	80	0	≤20	80-120
Benzene	ND	0.020	0.017	0.017	85	85	0	≤20	80-120
Trichloroethene	ND	0.020	0.017	0.016	85	80	6	≤20	80-120
Toluene	ND	0.020	0.016	0.017	80	85	6	≤20	80-120
Chlorobenzene	ND	0.020	0.018	0.018	90	90	0	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	84				112	104			70-130
Toluene-d8	90				105	112			70-130
4-Bromofluorobenzen	92				102	101			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10L030
Project:	Sunkist	Date Sampled:	12/15/2010
Project Site:	Sunkist, Ontario	Date Received:	12/15/2010
Matrix:	Soil	Date Analyzed:	12/15/2010
Batch No.:	AL15-GS (TPH-G)	Date Analyzed:	12/15/2010
Batch No.:	BL15-DS (TPH-D)	Date Reported:	12/16/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%) For Gasoline	Surrogate(%) For Diesel
		C4-C12	C12-C24	C24-C40		
	RL	0.1	10	50		
B-3-1	B10L030-1	ND	ND	ND	95	84

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline)

Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: AL15-GS (TPH-G)

Lab Job No.: B10L030
Lab Sample ID: LCS
Date Analyzed: 12/15/2010
Date Reported: 12/16/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	0.95	1.02	95	102	7	≤20	80-120
Surrogate (%)	101				95	91			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel)

Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10L030

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 12/15/2010

Batch No.: BL15-DS (TPH-D)

Date Reported: 12/16/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	425	423	85	85	0	≤20	80-120
Surrogate (%)	90				88	91			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10L030
Project:	Sunkist	Date Sampled:	12/15/2010
Project Site:	Sunkist, Ontario	Date Received:	12/15/2010
Matrix:	Soil	Date Extracted:	12/15/2010
Extraction Method:	EPA 3550B	Date Analyzed:	12/15/2010
Batch No.:	1215-PES-S	Date Reported:	12/16/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1		
LAB SAMPLE I.D.		B10L030-1	Method Blank		
CLIENT SAMPLE I.D.		B-3-1			
COMPOUND	RL				
α-BHC	5	ND	ND		
γ-BHC	5	ND	ND		
Heptachlor	5	ND	ND		
Aldrin	5	ND	ND		
β-BHC	5	ND	ND		
δ-BHC	5	ND	ND		
α-Chlordane	5	ND	ND		
γ-Chlordane	5	ND	ND		
Heptachlor Epoxide	5	ND	ND		
Endosulfan I	5	ND	ND		
4,4'-DDE	5	ND	ND		
Dieldrin	5	ND	ND		
Endrin	5	ND	ND		
Endosulfan II	5	ND	ND		
4,4'-DDD	5	ND	ND		
4,4'-DDT	5	ND	ND		
Endrin Aldehyde	5	ND	ND		
Endosulfan Sulfate	5	ND	ND		
Methoxychlor	20	ND	ND		
Endrin Ketone	10	ND	ND		
Technical Chlordane	25	ND	ND		
Toxaphene	100	ND	ND		
Surrogate Recovery (%) QC Limit:		65-140			
2,4,5,6-Tetrachloro-m-xylene		93	95		
Decachlorobiphenyl		89	89		

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
 Project: Sunkist
 Matrix: Soil
 Batch No.: 1215-PES-S

Lab Job No.: B10L030
 Lab Sample ID: LCS
 Date Analyzed: 12/15/2010
 Date Reported: 12/16/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ-BHC	ND	20	15.5	20.8	78	104	29	≤30	50-150
Heptachlor	ND	20	13.8	16.5	69	83	18	≤30	50-150
Aldrin	ND	20	17.9	21.7	90	109	19	≤30	50-140
Dieldrin	ND	40	31.0	37.9	78	95	20	≤30	70-130
Endrin	ND	40	50.0	55.1	125	138	10	≤30	70-150
4,4'-DDT	ND	40	34.3	29.1	86	73	16	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	95				81	78			65-140
DCP	89				86	95			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10L030
Project:	Sunkist	Date Sampled:	12/15/2010
Project Site:	Sunkist, Ontario	Date Received:	12/15/2010
Matrix:	Soil	Date Extracted:	12/15/2010
Extraction Method:	EPA 3550B	Date Analyzed:	12/15/2010
Batch No.:	1215-PCB-S	Date Reported:	12/16/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1			
LAB SAMPLE I.D.		B10L030-1	Method Blank			
CLIENT SAMPLE I.D.		B-3-1				
COMPOUND	RL					
PCB-1016	25	ND	ND			
PCB-1221	50	ND	ND			
PCB-1232	25	ND	ND			
PCB-1242	25	ND	ND			
PCB-1248	25	ND	ND			
PCB-1254	25	ND	ND			
PCB-1260	25	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		93	95			
Decachlorobiphenyl		89	89			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1215-PCB-S

Lab Job No.: B10L030
Lab Sample ID: LCS
Date Analyzed: 12/15/2010
Date Reported: 12/16/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	435	416	87	83	4	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	95				95	89			65-140
DCP	89				102	112			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10L030
Project:	Sunkist	Date Sampled:	12/15/2010
Project Site:	Sunkist, Ontario	Date Received:	12/15/2010
Matrix:	Soil	Date Digested:	12/15/2010
Digestion Method:	3050B	Date Analyzed:	12/16/2010
Batch No.:	1216-MTS	Date Reported:	12/16/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10L030-1			Report Limit
		B-3-1			
Antimony (Sb)	6010B	ND			10
Arsenic (As)	6010B	2.8			0.5
Barium (Ba)	6010B	42.7			5.0
Beryllium (Be)	6010B	ND			2.5
Cadmium (Cd)	6010B	ND			2.5
Chromium (Cr)	6010B	31.9			2.5
Cobalt (Co)	6010B	7.85			2.5
Copper (Cu)	6010B	11.9			2.5
Lead (Pb)	6010B	3.74			2.5
Mercury (Hg)	7471A	ND			0.1
Molybdenum (Mo)	6010B	ND			5.0
Nickel (Ni)	6010B	8.95			2.5
Selenium (Se)	6010B	ND			0.5
Silver (Ag)	6010B	ND			2.5
Thallium (Tl)	6010B	ND			2.5
Vanadium (V)	6010B	31.9			5.0
Zinc (Zn)	6010B	58.8			2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10L030
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	12/16/2010
Batch No.:	1216-MTS	Date Reported:	12/16/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	10	8.93	8.39	89	84	6	≤20	80-120
Arsenic (As)	6010B	ND	10	10.0	10.40	100	104	4	≤20	80-120
Barium (Ba)	6010B	ND	10	9.61	9.83	96	98	2	≤20	80-120
Beryllium (Be)	6010B	ND	10	10.2	10.2	102	102	0	≤20	80-120
Cadmium (Cd)	6010B	ND	10	10.2	11.1	102	111	8	≤20	80-120
Chromium (Cr)	6010B	ND	10	10.0	10.5	100	105	5	≤20	80-120
Cobalt (Co)	6010B	ND	10	11.2	11.6	112	116	4	≤20	80-120
Copper (Cu)	6010B	ND	10	8.80	8.40	88	84	5	≤20	80-120
Lead (Pb)	6010B	ND	10	9.46	9.38	95	94	1	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.95	1.86	98	93	5	≤20	80-120
Molybdenum (Mo)	6010B	ND	10	9.45	9.03	95	90	5	≤20	80-120
Nickel (Ni)	6010B	ND	10	10.0	10.4	100	104	4	≤20	80-120
Selenium (Se)	6010B	ND	10	8.93	8.39	89	84	6	≤20	80-120
Silver (Ag)	6010B	ND	10	10.0	10.6	100	106	6	≤20	80-120
Thallium (Tl)	6010B	ND	10	10.2	10.7	102	107	5	≤20	80-120
Vanadium (V)	6010B	ND	10	8.90	8.97	89	90	1	≤20	80-120
Zinc (Zn)	6010B	ND	10	10.4	11.0	104	110	6	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10L030
Project :	Sunkist	Date Sampled:	12/15/2010
Project Site:	Sunkist, Ontario	Date Received:	12/15/2010
Matrix:	Soil	Date Extracted:	12/15/2010
Extraction Method:	3550B	Date Analyzed:	12/15/2010
Batch No.:	1215-SVOCS	Date Reported:	12/16/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor	1			
Lab Sample I.D.	B10L030-1			
Client Sample I.D.	B-3-1			
Compound	RL			
Naphthalene	0.025	ND		
Acenaphthylene	0.025	ND		
Acenaphthene	0.025	ND		
Fluorene	0.025	ND		
Phenanthrene	0.025	ND		
Anthracene	0.025	ND		
Fluoranthene	0.025	ND		
Pyrene	0.025	ND		
Benzo (a) anthracene	0.025	ND		
Chrysene	0.025	ND		
Benzo (b) fluoranthene	0.025	ND		
Benzo (k) fluoranthene	0.025	ND		
Benzo (a) pyrene	0.025	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND		
Dibenzo(a,h)anthracene	0.025	ND		
Benzo(g,h,i)perylene	0.025	ND		
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		91		
2-Fluorobiphenyl		80		
p-Terphenyl-d14		79		

ND: Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10L030
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	12/15/2010
Batch No.:	1215-SVOCS	Date Reported:	12/16/2010

MB/LCS/LCSD Report

Unit: mg/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.16	0.17	64	68	6	≤30	50-150
Acenaphthylene	ND	0.25	0.17	0.18	68	72	6	≤30	50-150
Acenaphthene	ND	0.25	0.18	0.19	72	76	5	≤30	50-150
Fluorene	ND	0.25	0.21	0.17	84	68	21	≤30	50-150
Phenanthrene	ND	0.25	0.18	0.19	72	76	5	≤30	50-150
Anthracene	ND	0.25	0.19	0.21	76	84	10	≤30	50-150
Fluoranthene	ND	0.25	0.17	0.18	68	72	6	≤30	50-150
Pyrene	ND	0.25	0.16	0.17	64	68	6	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.16	0.19	64	76	17	≤30	50-150
Chrysene	ND	0.25	0.17	0.18	68	72	6	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.19	0.16	76	64	17	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.21	0.17	84	68	21	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.18	0.16	72	64	12	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.19	0.17	76	68	11	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.16	0.15	64	60	6	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.17	0.16	68	64	6	≤30	50-150
Nitrobenzene-d5 %Rec.	91				78	81			50-150
2-Fluorobiphenyl %Rec.	85				85	89			50-150
p-Terphenyl-d14 %Rec.	93				89	86			50-150

ND: Not Detected (Below RL).



**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761
Tel: 562-413-8343
Tel/ Fax: 909-923-8628

Page 1 of 1
Lab Job Number B102030

CHAIN OF CUSTODY

Client Name BEC			Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested																								
Address 17011 Beach Blvd, HB, CA			<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal		<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B(BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td>PAH by 8270 SIM</td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>										EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	PAH by 8270 SIM													<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal
EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)													EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	PAH by 8270 SIM																
Report Attention	Phone # 877-232-4620 Fax: #	Sampled By Willy P.	Project Site Sunkist Ontario													Remarks																							
Project No./ Name																																							
Client Sample ID	Lab Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	PAH by 8270 SIM	Remarks																				
B-3-1	B102030-1	12/15/10	2:08	Soil	ICE	1-ST	X					X	X		X				X	Rush																			
L-12A-2	-2		2:41		ICE	1-ST	X					X	X		X				X	Normal																			
L-12A-2	-3		2:43		ICE	1-ST							X		X																								
L-12A-3	-4		2:46		ICE	1-ST							X		X																								
L-12-1	-5		3:01		ICE	1-ST							X		X																								
L-12-2	-6		3:05										X		X																								
Relinquished By Willy P.		Company BEC	Date 12/15/10	Time 3:30 PM	Received By [Signature]		Company ABE	Date 12/15/10	Time 3:30 PM	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.																													
Relinquished By		Company	Date	Time	Received By		Company	Date	Time																														

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

12/20/2010

Project: Sunkist
Project Site: Sunkist
Sample Date: 12/15/2010
Lab Job No.: B10L030A

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 12/15/10 and analyzed by the following EPA methods:

EPA 8260B(VOCs & Oxygenates)
EPA 8015M(TPH-Gasoline)
EPA 8015M(TPH-Diesel & Oil)
EPA 8081A(Organochlorine Pesticides)
EPA 8082(PCBs)
EPA 6010B/7471A(CAM 17 Metals)
EPA 8270C SIM (PAHs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 1215-VOCS

Lab Job No.: B10L030A
 Date Sampled: 12/15/2010
 Date Received: 12/15/2010
 Date Analyzed: 12/15/2010
 Date Reported: 12/20/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 1 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed			12/15/10	12/15/10	
Dilution Factor			1	1	
Lab Sample I.D.			B10L030-2	Method Blank	
Client Sample I.D.			L-12A-1		
Compound	MDL	RL			
Dichlorodifluoromethane	0.0018	0.005	ND	ND	
Chloromethane	0.0018	0.005	ND	ND	
Vinyl Chloride	0.0018	0.005	ND	ND	
Bromomethane	0.0018	0.005	ND	ND	
Chloroethane	0.0018	0.005	ND	ND	
Trichlorofluoromethane	0.0018	0.005	ND	ND	
1,1-Dichloroethene	0.0018	0.005	ND	ND	
Carbon disulfide	0.0018	0.005	ND	ND	
Methylene chloride	0.0018	0.005	ND	ND	
Trans-1,2-Dichloroethene	0.0018	0.005	ND	ND	
1,1-Dichloroethane	0.0018	0.005	ND	ND	
2,2-Dichloropropane	0.0018	0.005	ND	ND	
Cis-1,2-Dichloroethene	0.0018	0.005	ND	ND	
Bromochloromethane	0.0018	0.005	ND	ND	
Chloroform	0.0018	0.005	ND	ND	
1,1,1-Trichloroethane	0.0018	0.005	ND	ND	
Vinyl acetate	0.0018	0.005	ND	ND	
Carbontetrachloride	0.0018	0.005	ND	ND	
1,1-Dichloropropene	0.0018	0.005	ND	ND	
1,2-Dichloroethane	0.0018	0.005	ND	ND	
Benzene	0.001	0.002	ND	ND	
Trichloroethene	0.0018	0.005	ND	ND	
1,2-Dichloropropane	0.0018	0.005	ND	ND	
Methyl methacrylate	0.0018	0.005	ND	ND	
Dibromomethane	0.0018	0.005	ND	ND	
Bromodichloromethane	0.0018	0.005	ND	ND	
2-Chloroethyl Vinyl Ether	0.0018	0.005	ND	ND	
Cis-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Toluene	0.001	0.002	ND	ND	
Trans-1,3-Dichloropropene	0.0018	0.005	ND	ND	
Ethylmethacrylate	0.0018	0.005	ND	ND	
1,1,2-Trichloroethane	0.0018	0.005	ND	ND	
Dibromochloromethane	0.0018	0.005	ND	ND	
1,2-Dibromoethane (EDB)	0.0018	0.005	ND	ND	
Tetrachloroethene	0.0018	0.005	ND	ND	
1,3-Dichloropropane	0.0018	0.005	ND	ND	
Chlorobenzene	0.0018	0.005	ND	ND	

RL=Reporting Limit; ND=Not Detected (Below Dilution Factor x MDL); MDL= Method Detection Limit.

ABC Environmental Laboratories

Client: Bowyer Environmental
 Project : Sunkist
 Project Site: Sunkist, Ontario
 Matrix: Soil
 Batch No.: 1215-VOCS

Lab Job No.: B10L030A
 Date Sampled: 12/15/2010
 Date Received: 12/15/2010
 Date Analyzed: 12/15/2010
 Date Reported: 12/20/2010

EPA 8260B (VOCs & Oxy.) by GC/MS, Page 2 of 2

Reporting Unit: mg/kg (PPM)

Date Analyzed		12/15/10	12/15/10		
Dilution Factor		1	1		
Lab Sample I.D.		B10L030-2	Method Blank		
Client Sample I.D.		L-12A-1			
Compound	MDL	RL			
1,1,1,2-Tetrachloroethane	0.0018	0.005	ND	ND	
Ethylbenzene	0.001	0.002	ND	ND	
Total Xylene	0.002	0.004	ND	ND	
Styrene	0.0018	0.005	ND	ND	
Bromoform	0.0018	0.005	ND	ND	
Isopropyl benzene	0.0018	0.005	ND	ND	
Bromobenzene	0.0018	0.005	ND	ND	
1,2,3-Trichloropropane	0.0018	0.005	ND	ND	
1,1,2,2,-Tetrachloroethane	0.0018	0.005	ND	ND	
Trans-1,4-dichloro-2-butene	0.0018	0.005	ND	ND	
2-Chlorotoluene	0.0018	0.005	ND	ND	
n-Propyl benzene	0.0018	0.005	ND	ND	
4-Chlorotoluene	0.0018	0.005	ND	ND	
1,3,5-Trimethyl benzene	0.0018	0.005	ND	ND	
tert-Butylbenzene	0.0018	0.005	ND	ND	
p-Isopropyl toluene	0.0018	0.005	ND	ND	
1,2,4-Trimethyl benzene	0.0018	0.005	ND	ND	
sec-Butylbenzene	0.0018	0.005	ND	ND	
1,3-Dichlorobenzene	0.0018	0.005	ND	ND	
1,4-Dichlorobenzene	0.0018	0.005	ND	ND	
1,2-Dichlorobenzene	0.0018	0.005	ND	ND	
n-Butylbenzene	0.0018	0.005	ND	ND	
1,2-Dibromo-3-chloropropan	0.0018	0.005	ND	ND	
1,2,4-Trichlorobenzene	0.0018	0.005	ND	ND	
Hexachlorobutadiene	0.0018	0.005	ND	ND	
Naphthalene	0.0018	0.005	ND	ND	
1,2,3-Trichlorobenzene	0.0018	0.005	ND	ND	
Acetone	0.025	0.050	ND	ND	
2-Butanone(MEK)	0.01	0.025	ND	ND	
4-Methyl-2-Pentanone (MIBK)	0.01	0.025	ND	ND	
MTBE	0.0018	0.005	ND	ND	
Ethyl-t-butyl Ether(ETBE)	0.0018	0.005	ND	ND	
Diisopropyl ether (DIPE)	0.0018	0.005	ND	ND	
TAME	0.0018	0.005	ND	ND	
t-Butanol	0.010	0.020	ND	ND	
Ethanol	0.25	0.5	ND	ND	
Surrogate Recovery (%) QC Limit 70-130					
1,2-Dichloroethane-d4			98	84	
Toluene-d8			105	90	
4-Bromofluorobenzene			103	92	

RL=Reporting Limit; ND=Not Detected (Below MDL x Dilution Factor); MDL= Method Detection Limit.

ABC Environmental Laboratories

EPA 8260B (VOCs & Oxy.) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1215-VOCS

Lab Job No.: B10L030A
Lab Sample ID: LCS
Date Analyzed: 12/15/2010
Date Reported: 12/20/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
1,1-Dichloroethene	ND	0.020	0.016	0.016	80	80	0	≤20	80-120
Benzene	ND	0.020	0.017	0.017	85	85	0	≤20	80-120
Trichloroethene	ND	0.020	0.017	0.016	85	80	6	≤20	80-120
Toluene	ND	0.020	0.016	0.017	80	85	6	≤20	80-120
Chlorobenzene	ND	0.020	0.018	0.018	90	90	0	≤20	80-120
Surrogate Recovery (%)									
1,2-Dichloroethane-d4	84				112	104			70-130
Toluene-d8	90				105	112			70-130
4-Bromofluorobenzen	92				102	101			70-130

MB: Method Blank.

ND: Not Detected (Below MDL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10L030A
Project:	Sunkist	Date Sampled:	12/15/2010
Project Site:	Sunkist, Ontario	Date Received:	12/15/2010
Matrix:	Soil	Date Analyzed:	12/15/2010
Batch No.:	AL15-GS (TPH-G)	Date Analyzed:	12/15/2010
Batch No.:	BL15-DS (TPH-D)	Date Reported:	12/20/2010

EPA 8015M (TPH-Gasoline, Diesel, Oil)

Reporting Unit: mg/kg (PPM)

Client Sample ID	Lab ID	Gasoline	Diesel	Oil	Surrogate(%)	Surrogate(%)
		C4-C12	C12-C24	C24-C40	For Gasoline	For Diesel
	RL	0.1	10	50		
L-12A-1	B10L030-2	ND	817	286	90	84
L-12A-2	B10L030-3	ND	108	ND	89	80
L-12A-3	B10L030-4	ND	ND	ND	95	89
L-12-1	B10L030-5	ND	216	54	78	90
L-12-2	B10L030-6	ND	ND	ND	81	95

RL=Reporting Limit; ND=Not Detected (Below RL).

Surrogates Recovery Accept Limits: 70-130.

ABC Environmental Laboratories

EPA 8015M (TPH-Gasoline) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10L030A
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	12/15/2010
Batch No.:	AL15-GS (TPH-G)	Date Reported:	12/20/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-G	ND	1.0	0.95	1.02	95	102	7	≤20	80-120
Surrogate (%)	101				95	91			70-130

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 8015M (TPH-Diesel) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: BL15-DS (TPH-D)

Lab Job No.: B10L030A
Lab Sample ID: LCS
Date Analyzed: 12/15/2010
Date Reported: 12/20/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Analyte	Method Blank*	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %rec.	%RPD	%RPD Accept Limit	%Rec Accept Limit
TPH-D	ND	500	425	423	85	85	0	≤20	80-120
Surrogate (%)	90				88	91			70-130

*: Motor Oil in Method Blank was ND.

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10L030A
Project:	Sunkist	Date Sampled:	12/15/2010
Project Site:	Sunkist, Ontario	Date Received:	12/15/2010
Matrix:	Soil	Date Extracted:	12/15/2010
Extraction Method:	EPA 3550B	Date Analyzed:	12/15/2010
Batch No.:	1215-PES-S	Date Reported:	12/20/2010

EPA 8081A (Organochlorine Pesticides)

Reporting Unit: µg/kg (PPB)

DILUTION FACTOR		1	1			
LAB SAMPLE I.D.		B10L030-2	Method Blank			
CLIENT SAMPLE I.D.		L-12A-1				
COMPOUND	RL					
α-BHC	5	ND	ND			
γ-BHC	5	ND	ND			
Heptachlor	5	ND	ND			
Aldrin	5	ND	ND			
β-BHC	5	ND	ND			
δ-BHC	5	ND	ND			
α-Chlordane	5	ND	ND			
γ-Chlordane	5	ND	ND			
Heptachlor Epoxide	5	ND	ND			
Endosulfan I	5	ND	ND			
4,4'-DDE	5	ND	ND			
Dieldrin	5	ND	ND			
Endrin	5	ND	ND			
Endosulfan II	5	ND	ND			
4,4'-DDD	5	ND	ND			
4,4'-DDT	5	ND	ND			
Endrin Aldehyde	5	ND	ND			
Endosulfan Sulfate	5	ND	ND			
Methoxychlor	20	ND	ND			
Endrin Ketone	10	ND	ND			
Technical Chlordane	25	ND	ND			
Toxaphene	100	ND	ND			
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		89	95			
Decachlorobiphenyl		85	89			

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA Method 8081A Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1215-PES-S

Lab Job No.: B10L030A
Lab Sample ID: LCS
Date Analyzed: 12/15/2010
Date Reported: 12/20/2010

MB/LCS/LCSD Report

Unit: ug/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
γ -BHC	ND	20	15.5	20.8	78	104	29	≤30	50-150
Heptachlor	ND	20	13.8	16.5	69	83	18	≤30	50-150
Aldrin	ND	20	17.9	21.7	90	109	19	≤30	50-140
Dieldrin	ND	40	31.0	37.9	78	95	20	≤30	70-130
Endrin	ND	40	50.0	55.1	125	138	10	≤30	70-150
4,4'-DDT	ND	40	34.3	29.1	86	73	16	≤30	50-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	95				81	78			65-140
DCP	89				86	95			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10L030A
Project:	Sunkist	Date Sampled:	12/15/2010
Project Site:	Sunkist, Ontario	Date Received:	12/15/2010
Matrix:	Soil	Date Extracted:	12/15/2010
Extraction Method:	EPA 3550B	Date Analyzed:	12/15/2010
Batch No.:	1215-PCB-S	Date Reported:	12/20/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B10L030-2	B10L030-3	B10L030-4	B10L030-5	B10L030-6
CLIENT SAMPLE I.D.		L-12A-1	L-12A-2	L-12A-3	L-12-1	L-12-2
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	ND	ND	ND	ND	ND
PCB-1260	25	ND	ND	ND	ND	ND
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		89	91	78	85	90
Decachlorobiphenyl		85	85	89	80	84

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10L030A
Project:	Sunkist	Date Sampled:	12/15/2010
Project Site:	Sunkist, Ontario	Date Received:	12/15/2010
Matrix:	Soil	Date Extracted:	12/15/2010
Extraction Method:	EPA 3550B	Date Analyzed:	12/15/2010
Batch No.:	1215-PCB-S	Date Reported:	12/20/2010

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1				
LAB SAMPLE I.D.		Method Blank				
CLIENT SAMPLE I.D.						
COMPOUND	RL					
PCB-1016	25	ND				
PCB-1221	50	ND				
PCB-1232	25	ND				
PCB-1242	25	ND				
PCB-1248	25	ND				
PCB-1254	25	ND				
PCB-1260	25	ND				
Surrogate Recovery (%) QC Limit:						
2,4,5,6-Tetrachloro-m-xylene		95				
Decachlorobiphenyl		89				

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 1215-PCB-S

Lab Job No.: B10L030A
Lab Sample ID: LCS
Date Analyzed: 12/15/2010
Date Reported: 12/20/2010

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	435	416	87	83	4	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	95				95	89			65-140
DCP	89				102	112			65-140

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10L030A
Project:	Sunkist	Date Sampled:	12/15/2010
Project Site:	Sunkist, Ontario	Date Received:	12/15/2010
Matrix:	Soil	Date Digested:	12/15/2010
Digestion Method:	3050B	Date Analyzed:	12/16/2010
Batch No.:	1216-MTS	Date Reported:	12/20/2010

EPA 6010B/7471A (17 CAM Metals)

Report Units: mg/kg (PPM)

Element	EPA Method	B10L030-2			Report Limit
		L-12A-1			
Antimony (Sb)	6010B	ND			10
Arsenic (As)	6010B	1.94			0.5
Barium (Ba)	6010B	23.9			5.0
Beryllium (Be)	6010B	ND			2.5
Cadmium (Cd)	6010B	ND			2.5
Chromium (Cr)	6010B	21.1			2.5
Cobalt (Co)	6010B	5.44			2.5
Copper (Cu)	6010B	7.4			2.5
Lead (Pb)	6010B	2.51			2.5
Mercury (Hg)	7471A	ND			0.1
Molybdenum (Mo)	6010B	ND			5.0
Nickel (Ni)	6010B	5.96			2.5
Selenium (Se)	6010B	ND			0.5
Silver (Ag)	6010B	ND			2.5
Thallium (Tl)	6010B	ND			2.5
Vanadium (V)	6010B	22.1			5.0
Zinc (Zn)	6010B	64.0			2.5

ND: Not Detected (Below RL).

ABC Environmental Laboratories

EPA 6010B/7471A (17 CAM Metals) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10L030A
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	12/20/2010
Batch No.:	1216-MTS	Date Reported:	12/20/2010

MB/LCS/LCSD Report

Unit: mg/kg (PPM)

Element	EPA Method	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Antimony (Sb)	6010B	ND	10	8.93	8.39	89	84	6	≤20	80-120
Arsenic (As)	6010B	ND	10	10.0	10.40	100	104	4	≤20	80-120
Barium (Ba)	6010B	ND	10	9.61	9.83	96	98	2	≤20	80-120
Beryllium (Be)	6010B	ND	10	10.2	10.2	102	102	0	≤20	80-120
Cadmium (Cd)	6010B	ND	10	10.2	11.1	102	111	8	≤20	80-120
Chromium (Cr)	6010B	ND	10	10.0	10.5	100	105	5	≤20	80-120
Cobalt (Co)	6010B	ND	10	11.2	11.6	112	116	4	≤20	80-120
Copper (Cu)	6010B	ND	10	8.80	8.40	88	84	5	≤20	80-120
Lead (Pb)	6010B	ND	10	9.46	9.38	95	94	1	≤20	80-120
Mercury (Hg)	7471A	ND	2	1.95	1.86	98	93	5	≤20	80-120
Molybdenum (Mo)	6010B	ND	10	9.45	9.03	95	90	5	≤20	80-120
Nickel (Ni)	6010B	ND	10	10.0	10.4	100	104	4	≤20	80-120
Selenium (Se)	6010B	ND	10	8.93	8.39	89	84	6	≤20	80-120
Silver (Ag)	6010B	ND	10	10.0	10.6	100	106	6	≤20	80-120
Thallium (Tl)	6010B	ND	10	10.2	10.7	102	107	5	≤20	80-120
Vanadium (V)	6010B	ND	10	8.90	8.97	89	90	1	≤20	80-120
Zinc (Zn)	6010B	ND	10	10.4	11.0	104	110	6	≤20	80-120

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10L030A
Project :	Sunkist	Date Sampled:	12/15/2010
Project Site:	Sunkist, Ontario	Date Received:	12/15/2010
Matrix:	Soil	Date Extracted:	12/15/2010
Extraction Method:	3550B	Date Analyzed:	12/15/2010
Batch No.:	1215-SVOCS	Date Reported:	12/20/2010

EPA 8270C SIM (PAHs) By GC/MS

Reporting Unit: mg/kg (PPM)

Dilution Factor	1			
Lab Sample I.D.	B10L030-2			
Client Sample I.D.	L-12A-1			
Compound	RL			
Naphthalene	0.025	ND		
Acenaphthylene	0.025	ND		
Acenaphthene	0.025	ND		
Fluorene	0.025	ND		
Phenanthrene	0.025	ND		
Anthracene	0.025	ND		
Fluoranthene	0.025	ND		
Pyrene	0.025	ND		
Benzo (a) anthracene	0.025	ND		
Chrysene	0.025	ND		
Benzo (b) fluoranthene	0.025	ND		
Benzo (k) fluoranthene	0.025	ND		
Benzo (a) pyrene	0.025	ND		
Indeno(1,2,3-cd)pyrene	0.025	ND		
Dibenzo(a,h)anthracene	0.025	ND		
Benzo(g,h,i)perylene	0.025	ND		
Surrogate Recovery (%) QC Limit 50-150				
Nitrobenzene-d5		81		
2-Fluorobiphenyl		94		
p-Terphenyl-d14		85		

ND: Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8270C SIM (PAHs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B10L030A
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Soil	Date Analyzed:	12/15/2010
Batch No.:	1215-SVOCS	Date Reported:	12/20/2010

MB/LCS/LCSD Report

Unit: mg/kg

Compound	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Naphthalene	ND	0.25	0.16	0.17	64	68	6	≤30	50-150
Acenaphthylene	ND	0.25	0.17	0.18	68	72	6	≤30	50-150
Acenaphthene	ND	0.25	0.18	0.19	72	76	5	≤30	50-150
Fluorene	ND	0.25	0.21	0.17	84	68	21	≤30	50-150
Phenanthrene	ND	0.25	0.18	0.19	72	76	5	≤30	50-150
Anthracene	ND	0.25	0.19	0.21	76	84	10	≤30	50-150
Fluoranthene	ND	0.25	0.17	0.18	68	72	6	≤30	50-150
Pyrene	ND	0.25	0.16	0.17	64	68	6	≤30	50-150
Benzo (a) anthracene	ND	0.25	0.16	0.19	64	76	17	≤30	50-150
Chrysene	ND	0.25	0.17	0.18	68	72	6	≤30	50-150
Benzo (b) fluoranthene	ND	0.25	0.19	0.16	76	64	17	≤30	50-150
Benzo (k) fluoranthene	ND	0.25	0.21	0.17	84	68	21	≤30	50-150
Benzo (a) pyrene	ND	0.25	0.18	0.16	72	64	12	≤30	50-150
Indeno(1,2,3-cd)pyrene	ND	0.25	0.19	0.17	76	68	11	≤30	50-150
Dibenzo(a,h)anthracene	ND	0.25	0.16	0.15	64	60	6	≤30	50-150
Benzo(g,h,i)perylene	ND	0.25	0.17	0.16	68	64	6	≤30	50-150
Nitrobenzene-d5 %Rec.	91				78	81			50-150
2-Fluorobiphenyl %Rec.	85				85	89			50-150
p-Terphenyl-d14 %Rec.	93				89	86			50-150

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested												Turn Around Time Requested			
Address 17011 Beach Blvd, HB, CA		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal														<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal			
Report Attention	Phone # 877-232-4620	Sampled By Willy P.																	
Project No./ Name	Project Site Sunkist Ontario																		
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	PAH by 8270 SIM	Remarks
B-3-1	B102030-1	12/15/10	2:08	Soil	ICE	1-ST	X					X	X		X		X	X	Rush
L-12A-1	-2		2:41		ICE	1-ST	X					X	X		X		X	X	Normal
L-12A-2	-3		2:43		ICE	1-ST							X		X				
L-12A-3	-4		2:46		ICE	1-ST							X		X				
L-12-1	-5		3:01		ICE	1-ST							X		X				
L-12-2	-6		3:05										X		X				
																			Rush sample report was sent on 12/16/2010

Relinquished By Willy P.	Company BEC	Date 12/15/10	Time 3:30PM	Received By [Signature]	Company ABC	Date 12/15/10	Time 3:30PM	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

1/12/2011

Project: Sunkist
Project Site: Sunkist
Sample Date: 12/30/2010
Lab Job No.: B10L056A

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 12/30/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10L056A
Project:	Sunkist	Date Sampled:	12/30/2010
Project Site:	Sunkist, Ontario	Date Received:	12/30/2010
Matrix:	Concrete	Date Extracted:	1/11/2011
Extraction Method:	EPA 3550B	Date Analyzed:	1/11/2011
Batch No.:	0111-PCB-S	Date Reported:	1/12/2011

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B10L056-1	B10L056-2	B10L056-3	B10L056-4	B10L056-5
CLIENT SAMPLE I.D.		AGB-12	FLI-B12	BSW-B12	LD-L1	B-15
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	ND	ND	26.1	28.2	ND
PCB-1260	25	ND	ND	ND	ND	ND
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		101	94	105	89	90
Decachlorobiphenyl		112	89	95	91	95

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

Samples were specially prepared by following client instruction.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10L056A
Project:	Sunkist	Date Sampled:	12/30/2010
Project Site:	Sunkist, Ontario	Date Received:	12/30/2010
Matrix:	Concrete	Date Extracted:	1/11/2011
Extraction Method:	EPA 3550B	Date Analyzed:	1/11/2011
Batch No.:	0111-PCB-S	Date Reported:	1/12/2011

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1				
LAB SAMPLE I.D.		Method Blank				
CLIENT SAMPLE I.D.						
COMPOUND	RL					
PCB-1016	25	ND				
PCB-1221	50	ND				
PCB-1232	25	ND				
PCB-1242	25	ND				
PCB-1248	25	ND				
PCB-1254	25	ND				
PCB-1260	25	ND				
Surrogate Recovery (%)		QC Limit:	65-140			
2,4,5,6-Tetrachloro-m-xylene		89				
Decachlorobiphenyl		95				

RL=Reporting Limit; ND=Not Detected (Below RL x Dilution Factor).

Samples were specially prepared by following client instruction.

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental
Project: Sunkist
Matrix: Soil
Batch No.: 0111-PCB-S

Lab Job No.: B10L056A
Lab Sample ID: LCS
Date Analyzed: 1/11/2011
Date Reported: 1/12/2011

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	441	443	88	89	0	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-TCMX	89				101	91			65-140
DCP	95				95	105			65-140

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested																																																																																																																																														
Address <u>17011 Beach Blvd, HB, CA</u>		<input type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal		<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B(BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals									<input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal																																																																																																																											
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Appendix C

Statistical Evaluation

Sample ID	Arsenic	Barium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Vanadium	Zinc
A-4-1	1.20	33.40	7.15	2.50	22.5	6.25	<0.10	3.54	17.00	9.59
A-5-1	<0.50	14.1	2.51	2.50	9.14	4.8	<0.10	<2.50	<0.50	8.80
A-5-2	1.21	38.80	13.70	4.10	13.4	3.53	<0.10	8.81	25.20	31.80
B-5-1	4.39	67.4	36.8	8.87	68	68.4	<0.10	18.0	34.60	47.70
L-13-3	4.79	52.60	33.20	5.58	11.6	4.23	<0.10	7.50	35.50	247
B-5-2	6.72	82.10	29.20	11.10	103	30.10	<0.10	20.60	38.40	163
B-4-1	5.32	86.9	21.7	9.05	31.6	45.3	<0.10	9.99	41.90	103
B-4-2	4.48	63.60	22.60	9.61	52.00	20.90	0.65	10.90	40.10	81.30
E-4-1	6.79	81.70	575	5.95	21.70	7.33	<0.10	8.11	41	204
E-4-2	6.47	59.60	37.5	6.61	19.80	7.53	<0.10	9.17	40.5	54.40
L-23-2	6.89	73.6	26.3	6.76	22.9	17.6	<0.10	10.1	38.1	80.9
F-5-1	5.26	53.2	15.9	4.41	11.3	2.9	<0.10	6.2	27.6	81.9
E-5-1	4.46	49.2	16.8	5.17	17.1	4.89	<0.10	7.05	26.3	36.7
D-5-1	8.32	52.8	21.30	8.47	13.9	4.13	<0.10	9.31	36.6	45.6
D-5-2	5.17	45.1	16.7	5.54	41.3	13.1	<0.10	12.0	20.4	158
D-5-3	11.5	77.7	28.4	12.2	21.5	5.62	<0.10	14.4	50.9	68.7
D-5-4	10.4	74.2	24.4	10.6	16.4	9.45	<0.10	11.8	45.1	57.7
D-4-1	11.9	84.7	28.1	11.9	18.1	3.54	<0.10	12.4	51	59.3
D-4-2	9.52	46.8	23.0	9.38	15.1	3.21	<0.10	10.6	40.0	49.4
F-4-1	8.78	56.6	23.7	8.19	14.6	3.12	<0.10	9.24	38.9	42.8
D-5-5	9.45	66.8	21.8	10.6	18.8	3.14	<0.10	11.4	41.1	60.1
D-5-6	6.06	63.1	27.8	6.47	14.0	2.80	<0.10	8.40	31.5	34.7
C-1-1	7.44	32.3	19.9	8.01	13.7	2.56	<0.10	8.39	30.3	33.2
L-21-1	6.49	36.5	33.5	8.20	12.7	2.54	<0.10	8.61	40.3	37.1
L-21- 2	6.26	36.4	29.1	7.91	11.2	2.86	<0.10	8.77	32.1	36.1
L-11-2	5.46	48.7	31.4	8.8	13.7	4.40	<0.10	9.7	33.1	48.0
D-1-1	4.25	69.7	46.5	14.7	24.1	25.90	<0.10	16.9	50.1	110.0
D-2-1 & C-2-1 Comp	2.54	50.1	33.3	5.1	13.8	7.28	<0.10	7.67	25.8	42.9
E-3-1	2.91	54.9	20.7	4.79	7.52	4.62	<0.10	4.52	23.7	21.5
E-3-2	2.85	47.6	19.6	4.82	7.85	3.79	<0.10	4.92	28.8	27.2
L-62-2	2.19	23.4	23.1	4.89	8.36	2.99	<0.10	6.32	25.2	21.1
A-6-1	5.4	53.1	20.9	10.1	18.0	4.33	<0.10	12.9	53.2	39.3
B-3-1	2.8	42.7	31.9	7.85	11.9	3.74	<0.10	8.95	31.9	58.8
L-12A-1	1.94	23.9	21.1	5.44	7.4	2.51	<0.10	5.96	22.1	64.0
SP-ASP-1	2.88	56.70	6.00	3.56	136.00	57.30	<0.10	35.80	13.40	46.10
SP-ASP-2	3.32	54.10	7.60	4.46	18.40	107.00	<0.10	30.40	17.60	89.90
SP-11-C-1-1	7.55	108	45.9	7.35	162	78.3	<0.10	90	47.5	125

General UCL Statistics for Full Data Sets

User Selected Options

From File Metals.wst
 Full Precision OFF
 Confidence Coefficient 95%
 Number of Bootstrap Operations 2000

Arsenic

General Statistics

Number of Valid Observations 47 Number of Distinct Observations 46

Raw Statistics

Minimum 0.5
 Maximum 11.9
 Mean 4.74
 Median 4.46
 SD 2.97
 Coefficient of Variation 0.627
 Skewness 0.666

Log-transformed Statistics

Minimum of Log Data -0.693
 Maximum of Log Data 2.477
 Mean of log Data 1.328
 SD of log Data 0.734

Relevant UCL Statistics

Normal Distribution Test

Shapiro Wilk Test Statistic 0.927
 Shapiro Wilk Critical Value 0.946
 Data not Normal at 5% Significance Level

Lognormal Distribution Test

Shapiro Wilk Test Statistic 0.952
 Shapiro Wilk Critical Value 0.946
 Data appear Lognormal at 5% Significance Level

Assuming Normal Distribution

95% Student's-t UCL 5.467
 95% UCLs (Adjusted for Skewness)
 95% Adjusted-CLT UCL (Chen-1995) 5.498
 95% Modified-t UCL (Johnson-1978) 5.474

Assuming Lognormal Distribution

95% H-UCL 6.176
 95% Chebyshev (MVUE) UCL 7.425
 97.5% Chebyshev (MVUE) UCL 8.516
 99% Chebyshev (MVUE) UCL 10.66

Gamma Distribution Test

k star (bias corrected) 2.21
 Theta Star 2.145
 MLE of Mean 4.74
 MLE of Standard Deviation 3.188
 nu star 207.8
 Approximate Chi Square Value (.05) 175.4
 Adjusted Level of Significance 0.0449
 Adjusted Chi Square Value 174.5

Data Distribution

Data appear Gamma Distributed at 5% Significance Level

Anderson-Darling Test Statistic

Anderson-Darling 5% Critical Value 0.76
 Kolmogorov-Smirnov Test Statistic 0.104
 Kolmogorov-Smirnov 5% Critical Value 0.131
 Data appear Gamma Distributed at 5% Significance Level

Nonparametric Statistics

95% CLT UCL 5.453
 95% Jackknife UCL 5.467
 95% Standard Bootstrap UCL 5.418
 95% Bootstrap-t UCL 5.537
 95% Hall's Bootstrap UCL 5.526
 95% Percentile Bootstrap UCL 5.447
 95% BCA Bootstrap UCL 5.517
 95% Chebyshev(Mean, Sd) UCL 6.628
 97.5% Chebyshev(Mean, Sd) UCL 7.446
 99% Chebyshev(Mean, Sd) UCL 9.051

Assuming Gamma Distribution

95% Approximate Gamma UCL 5.614
 95% Adjusted Gamma UCL 5.645

Potential UCL to Use

Use 95% Approximate Gamma UCL 5.614

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Barium

General Statistics

Number of Valid Observations 47 Number of Distinct Observations 47

Raw Statistics

Minimum	14.1	Log-transformed Statistics	
Maximum	130	Minimum of Log Data	2.646
Mean	64.02	Maximum of Log Data	4.868
Median	57.8	Mean of log Data	4.071
SD	25.72	SD of log Data	0.446
Coefficient of Variation	0.402		
Skewness	0.518		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.972	Shapiro Wilk Test Statistic	0.962
Shapiro Wilk Critical Value	0.946	Shapiro Wilk Critical Value	0.946
Data appear Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution

95% Student's-t UCL	70.32	Assuming Lognormal Distribution	
95% UCLs (Adjusted for Skewness)		95% H-UCL	73.14
95% Adjusted-CLT UCL (Chen-1995)	70.49	95% Chebyshev (MVUE) UCL	83.66
95% Modified-t UCL (Johnson-1978)	70.37	97.5% Chebyshev (MVUE) UCL	91.9
		99% Chebyshev (MVUE) UCL	108.1

Gamma Distribution Test

k star (bias corrected)	5.502	Data Distribution	
Theta Star	11.64	Data appear Normal at 5% Significance Level	
MLE of Mean	64.02		
MLE of Standard Deviation	27.29		
nu star	517.2		
Approximate Chi Square Value (.05)	465.4	Nonparametric Statistics	
Adjusted Level of Significance	0.0449	95% CLT UCL	70.19
Adjusted Chi Square Value	463.9	95% Jackknife UCL	70.32
		95% Standard Bootstrap UCL	70.09
Anderson-Darling Test Statistic	0.194	95% Bootstrap-t UCL	70.73
Anderson-Darling 5% Critical Value	0.753	95% Hall's Bootstrap UCL	70.37
Kolmogorov-Smirnov Test Statistic	0.0684	95% Percentile Bootstrap UCL	70.36
Kolmogorov-Smirnov 5% Critical Value	0.129	95% BCA Bootstrap UCL	70.41
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	80.37
		97.5% Chebyshev(Mean, Sd) UCL	87.45
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	101.3
95% Approximate Gamma UCL	71.14		
95% Adjusted Gamma UCL	71.38		

Potential UCL to Use Use 95% Student's-t UCL 70.32

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Chromium

General Statistics

Number of Valid Observations 47 Number of Distinct Observations 46

Raw Statistics

Log-transformed Statistics

Minimum	2.51	Minimum of Log Data	0.92
Maximum	575	Maximum of Log Data	6.354
Mean	35.09	Mean of log Data	3.115
Median	23	SD of log Data	0.714
SD	80.99		
Coefficient of Variation	2.308		
Skewness	6.718		
Relevant UCL Statistics			
Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.235	Shapiro Wilk Test Statistic	0.806
Shapiro Wilk Critical Value	0.946	Shapiro Wilk Critical Value	0.946
Data not Normal at 5% Significance Level		Data not Lognormal at 5% Significance Level	
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	54.92	95% H-UCL	36.07
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	43.27
95% Adjusted-CLT UCL (Chen-1995)	66.89	97.5% Chebyshev (MVUE) UCL	49.49
95% Modified-t UCL (Johnson-1978)	56.85	99% Chebyshev (MVUE) UCL	61.72
Gamma Distribution Test			
k star (bias corrected)	1.202	Data Distribution	
Theta Star	29.2	Data do not follow a Discernable Distribution (0.05)	
MLE of Mean	35.09		
MLE of Standard Deviation	32.01		
nu star	113		
Approximate Chi Square Value (.05)	89.43	Nonparametric Statistics	
Adjusted Level of Significance	0.0449	95% CLT UCL	54.52
Adjusted Chi Square Value	88.77	95% Jackknife UCL	54.92
		95% Standard Bootstrap UCL	54.09
Anderson-Darling Test Statistic	6.06	95% Bootstrap-t UCL	161.9
Anderson-Darling 5% Critical Value	0.772	95% Hall's Bootstrap UCL	147.3
Kolmogorov-Smirnov Test Statistic	0.295	95% Percentile Bootstrap UCL	58.93
Kolmogorov-Smirnov 5% Critical Value	0.132	95% BCA Bootstrap UCL	71.2
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	86.58
		97.5% Chebyshev(Mean, Sd) UCL	108.9
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	152.6
95% Approximate Gamma UCL	44.33		
95% Adjusted Gamma UCL	44.66		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	86.58

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Cobalt

General Statistics

Number of Valid Observations	47	Number of Distinct Observations	43
Raw Statistics			
Minimum	2.5	Minimum of Log Data	0.916
Maximum	17.8	Maximum of Log Data	2.879
Mean	8.583	Mean of log Data	2.051
Median	8.2	SD of log Data	0.467
SD	3.697		
Coefficient of Variation	0.431		
Skewness	0.501		
Log-transformed Statistics			

Relevant UCL Statistics		Lognormal Distribution Test	
Normal Distribution Test		Shapiro Wilk Test Statistic	0.964
Shapiro Wilk Test Statistic	0.96	Shapiro Wilk Critical Value	0.946
Shapiro Wilk Critical Value	0.946	Data appear Lognormal at 5% Significance Level	
Data appear Normal at 5% Significance Level			
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	9.489	95% H-UCL	9.86
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	11.33
95% Adjusted-CLT UCL (Chen-1995)	9.513	97.5% Chebyshev (MVUE) UCL	12.49
95% Modified-t UCL (Johnson-1978)	9.495	99% Chebyshev (MVUE) UCL	14.77
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	4.889	Data appear Normal at 5% Significance Level	
Theta Star	1.756		
MLE of Mean	8.583		
MLE of Standard Deviation	3.882		
nu star	459.6		
Approximate Chi Square Value (.05)	410.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0449	95% CLT UCL	9.471
Adjusted Chi Square Value	409.4	95% Jackknife UCL	9.489
		95% Standard Bootstrap UCL	9.477
Anderson-Darling Test Statistic	0.23	95% Bootstrap-t UCL	9.528
Anderson-Darling 5% Critical Value	0.753	95% Hall's Bootstrap UCL	9.494
Kolmogorov-Smirnov Test Statistic	0.0759	95% Percentile Bootstrap UCL	9.484
Kolmogorov-Smirnov 5% Critical Value	0.13	95% BCA Bootstrap UCL	9.512
Data appear Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	10.93
		97.5% Chebyshev(Mean, Sd) UCL	11.95
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	13.95
95% Approximate Gamma UCL	9.601		
95% Adjusted Gamma UCL	9.635		
Potential UCL to Use		Use 95% Student's-t UCL	9.489

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Copper

General Statistics		Log-transformed Statistics	
Number of Valid Observations	47	Number of Distinct Observations	44
Raw Statistics		Log-transformed Statistics	
Minimum	7.4	Minimum of Log Data	2.001
Maximum	162	Maximum of Log Data	5.088
Mean	26.09	Mean of log Data	2.944
Median	17.1	SD of log Data	0.68
SD	31.04		
Coefficient of Variation	1.19		
Skewness	3.277		
Relevant UCL Statistics		Lognormal Distribution Test	
Normal Distribution Test		Shapiro Wilk Test Statistic	0.846
Shapiro Wilk Test Statistic	0.528	Shapiro Wilk Critical Value	0.946
Shapiro Wilk Critical Value	0.946	Data not Lognormal at 5% Significance Level	
Data not Normal at 5% Significance Level			

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	33.69	95% H-UCL	29.32
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	35.01
95% Adjusted-CLT UCL (Chen-1995)	35.85	97.5% Chebyshev (MVUE) UCL	39.86
95% Modified-t UCL (Johnson-1978)	34.05	99% Chebyshev (MVUE) UCL	49.38
Gamma Distribution Test		Data Distribution	
k star (bias corrected)	1.628	Data do not follow a Discernable Distribution (0.05)	
Theta Star	16.03		
MLE of Mean	26.09		
MLE of Standard Deviation	20.45		
nu star	153		
Approximate Chi Square Value (.05)	125.4	Nonparametric Statistics	
Adjusted Level of Significance	0.0449	95% CLT UCL	33.54
Adjusted Chi Square Value	124.7	95% Jackknife UCL	33.69
		95% Standard Bootstrap UCL	33.38
Anderson-Darling Test Statistic	4.462	95% Bootstrap-t UCL	40.12
Anderson-Darling 5% Critical Value	0.765	95% Hall's Bootstrap UCL	36.69
Kolmogorov-Smirnov Test Statistic	0.272	95% Percentile Bootstrap UCL	34.19
Kolmogorov-Smirnov 5% Critical Value	0.131	95% BCA Bootstrap UCL	36.52
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	45.83
		97.5% Chebyshev(Mean, Sd) UCL	54.37
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	71.14
95% Approximate Gamma UCL	31.83		
95% Adjusted Gamma UCL	32.03		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	45.83

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Lead

General Statistics			
Number of Valid Observations	47	Number of Distinct Observations	47
Raw Statistics		Log-transformed Statistics	
Minimum	2.51	Minimum of Log Data	0.92
Maximum	107	Maximum of Log Data	4.673
Mean	14.14	Mean of log Data	2.014
Median	5.62	SD of log Data	0.99
SD	21.92		
Coefficient of Variation	1.55		
Skewness	2.823		
Relevant UCL Statistics		Lognormal Distribution Test	
Normal Distribution Test		Shapiro Wilk Test Statistic	0.855
Shapiro Wilk Test Statistic	0.565	Shapiro Wilk Critical Value	0.946
Shapiro Wilk Critical Value	0.946	Data not Lognormal at 5% Significance Level	
Data not Normal at 5% Significance Level			
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	19.51	95% H-UCL	17.16
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	20.93
95% Adjusted-CLT UCL (Chen-1995)	20.81	97.5% Chebyshev (MVUE) UCL	24.77
95% Modified-t UCL (Johnson-1978)	19.73	99% Chebyshev (MVUE) UCL	32.32
Gamma Distribution Test		Data Distribution	

k star (bias corrected)	0.873	Data do not follow a Discernable Distribution (0.05)	
Theta Star	16.19		
MLE of Mean	14.14		
MLE of Standard Deviation	15.13		
nu star	82.09		
Approximate Chi Square Value (.05)	62.21	Nonparametric Statistics	
Adjusted Level of Significance	0.0449	95% CLT UCL	19.4
Adjusted Chi Square Value	61.67	95% Jackknife UCL	19.51
		95% Standard Bootstrap UCL	19.21
Anderson-Darling Test Statistic	4.316	95% Bootstrap-t UCL	22.93
Anderson-Darling 5% Critical Value	0.782	95% Hall's Bootstrap UCL	20.29
Kolmogorov-Smirnov Test Statistic	0.266	95% Percentile Bootstrap UCL	19.66
Kolmogorov-Smirnov 5% Critical Value	0.133	95% BCA Bootstrap UCL	21.08
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	28.08
		97.5% Chebyshev(Mean, Sd) UCL	34.11
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	45.96
95% Approximate Gamma UCL	18.66		
95% Adjusted Gamma UCL	18.83		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	28.08

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Mercury

General Statistics

Number of Valid Observations	1	Number of Distinct Observations	1
Number of Missing Values	7		

Warning: This data set only has 1 observations!
 Data set is too small to compute reliable and meaningful statistics and estimates!
 The data set for variable Mercury was not processed!

It is suggested to collect at least 8 to 10 observations before using these statistical methods!
 If possible, compute and collect Data Quality Objectives (DQO) based sample size and analytical results.

Nickel

General Statistics

Number of Valid Observations	47	Number of Distinct Observations	47
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Raw Statistics

		Log-transformed Statistics	
Minimum	2.5	Minimum of Log Data	0.916
Maximum	90	Maximum of Log Data	4.5
Mean	14.4	Mean of log Data	2.446
Median	10.6	SD of log Data	0.628
SD	13.28		
Coefficient of Variation	0.923		
Skewness	4.261		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Shapiro Wilk Test Statistic	0.605	Shapiro Wilk Test Statistic	0.976
Shapiro Wilk Critical Value	0.946	Shapiro Wilk Critical Value	0.946

Data not Normal at 5% Significance Level

Data appear Lognormal at 5% Significance Level

Assuming Normal Distribution

Assuming Lognormal Distribution

95% Student's-t UCL	17.65	95% H-UCL	16.88
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	19.99
95% Adjusted-CLT UCL (Chen-1995)	18.87	97.5% Chebyshev (MVUE) UCL	22.58
95% Modified-t UCL (Johnson-1978)	17.85	99% Chebyshev (MVUE) UCL	27.69

Gamma Distribution Test

Data Distribution

k star (bias corrected) 2.273 Data Follow Appr. Gamma Distribution at 5% Significance

Theta Star 6.336

MLE of Mean 14.4

MLE of Standard Deviation 9.551

nu star 213.6

Approximate Chi Square Value (.05) 180.8 Nonparametric Statistics

Adjusted Level of Significance 0.0449 95% CLT UCL 17.59

Adjusted Chi Square Value 179.9 95% Jackknife UCL 17.65

95% Standard Bootstrap UCL 17.57

95% Bootstrap-t UCL 20.41

95% Hall's Bootstrap UCL 31.84

95% Percentile Bootstrap UCL 18.05

95% BCA Bootstrap UCL 18.68

95% Chebyshev(Mean, Sd) UCL 22.84

97.5% Chebyshev(Mean, Sd) UCL 26.5

99% Chebyshev(Mean, Sd) UCL 33.68

Assuming Gamma Distribution 95% Approximate Gamma UCL 17.01

95% Adjusted Gamma UCL 17.1

Potential UCL to Use

Use 95% Approximate Gamma UCL 17.01

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Vanadium

General Statistics

Number of Valid Observations 47 Number of Distinct Observations 46

Raw Statistics

Log-transformed Statistics

Minimum 0.5 Minimum of Log Data -0.693

Maximum 53.2 Maximum of Log Data 3.974

Mean 29.12 Mean of log Data 3.201

Median 30.3 SD of log Data 0.759

SD 13.28

Coefficient of Variation 0.456

Skewness -0.0705

Relevant UCL Statistics

Lognormal Distribution Test

Normal Distribution Test Shapiro Wilk Test Statistic 0.958 Shapiro Wilk Test Statistic 0.739

Shapiro Wilk Critical Value 0.946 Shapiro Wilk Critical Value 0.946

Data appear Normal at 5% Significance Level Data not Lognormal at 5% Significance Level

Assuming Normal Distribution

Assuming Lognormal Distribution

95% Student's-t UCL 32.37 95% H-UCL 41.34

95% UCLs (Adjusted for Skewness) 95% Chebyshev (MVUE) UCL 49.83

95% Adjusted-CLT UCL (Chen-1995) 32.29 97.5% Chebyshev (MVUE) UCL 57.34

95% Modified-t UCL (Johnson-1978) 32.37 99% Chebyshev (MVUE) UCL 72.08

Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.9	Data appear Normal at 5% Significance Level	
Theta Star	10.04		
MLE of Mean	29.12		
MLE of Standard Deviation	17.1		
nu star	272.6		
Approximate Chi Square Value (.05)	235.3	Nonparametric Statistics	
Adjusted Level of Significance	0.0449	95% CLT UCL	32.31
Adjusted Chi Square Value	234.2	95% Jackknife UCL	32.37
		95% Standard Bootstrap UCL	32.28
Anderson-Darling Test Statistic	1.131	95% Bootstrap-t UCL	32.32
Anderson-Darling 5% Critical Value	0.756	95% Hall's Bootstrap UCL	32.17
Kolmogorov-Smirnov Test Statistic	0.118	95% Percentile Bootstrap UCL	32.31
Kolmogorov-Smirnov 5% Critical Value	0.13	95% BCA Bootstrap UCL	32.2
Data follow Appr. Gamma Distribution at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	37.57
		97.5% Chebyshev(Mean, Sd) UCL	41.22
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	48.39
95% Approximate Gamma UCL	33.73		
95% Adjusted Gamma UCL	33.89		
Potential UCL to Use		Use 95% Student's-t UCL	32.37

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Zinc

General Statistics			
Number of Valid Observations	47	Number of Distinct Observations	46
Raw Statistics		Log-transformed Statistics	
Minimum	8.8	Minimum of Log Data	2.175
Maximum	247	Maximum of Log Data	5.509
Mean	62.73	Mean of log Data	3.923
Median	47.7	SD of log Data	0.656
SD	47.84		
Coefficient of Variation	0.763		
Skewness	2.199		
Relevant UCL Statistics		Lognormal Distribution Test	
Normal Distribution Test		Shapiro Wilk Test Statistic	0.953
Shapiro Wilk Test Statistic	0.758	Shapiro Wilk Critical Value	0.946
Shapiro Wilk Critical Value	0.946	Data appear Lognormal at 5% Significance Level	
Data not Normal at 5% Significance Level			
Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	74.44	95% H-UCL	76.09
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	90.51
95% Adjusted-CLT UCL (Chen-1995)	76.6	97.5% Chebyshev (MVUE) UCL	102.7
95% Modified-t UCL (Johnson-1978)	74.81	99% Chebyshev (MVUE) UCL	126.6

Gamma Distribution Test		Data Distribution	
k star (bias corrected)	2.332	Data appear Lognormal at 5% Significance Level	
Theta Star	26.9		
MLE of Mean	62.73		
MLE of Standard Deviation	41.08		
nu star	219.2		

Approximate Chi Square Value (.05)	185.9	Nonparametric Statistics	
Adjusted Level of Significance	0.0449	95% CLT UCL	74.21
Adjusted Chi Square Value	185	95% Jackknife UCL	74.44
		95% Standard Bootstrap UCL	73.91
Anderson-Darling Test Statistic	1.452	95% Bootstrap-t UCL	78.27
Anderson-Darling 5% Critical Value	0.759	95% Hall's Bootstrap UCL	77.27
Kolmogorov-Smirnov Test Statistic	0.165	95% Percentile Bootstrap UCL	75.03
Kolmogorov-Smirnov 5% Critical Value	0.13	95% BCA Bootstrap UCL	77.19
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	93.15
		97.5% Chebyshev(Mean, Sd) UCL	106.3
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	132.2
95% Approximate Gamma UCL	73.95		
95% Adjusted Gamma UCL	74.34		
Potential UCL to Use		Use 95% H-UCL	76.09

ProUCL computes and outputs H-statistic based UCLs for historical reasons only.

H-statistic often results in unstable (both high and low) values of UCL95 as shown in examples in the Technical Guide.

It is therefore recommended to avoid the use of H-statistic based 95% UCLs.

Use of nonparametric methods are preferred to compute UCL95 for skewed data sets which do not follow a gamma distrib

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

From File: Metals.wst

Summary Statistics for Raw Full Data Sets

Variable	NumObs	Minimum	Maximum	Mean	Median	Variance	SD	MAD/0.675	Skewness	Kurtosis	CV
Arsenic	47	0.5	11.9	4.74	4.46	8.822	2.97	3.158	0.666	-0.338	0.627
Barium	47	14.1	130	64.02	57.8	661.3	25.72	23.42	0.518	0.0367	0.402
Chromium	47	2.51	575	35.09	23	6559	80.99	9.192	6.718	45.72	2.308
Cobalt	47	2.5	17.8	8.583	8.2	13.67	3.697	4.092	0.501	-0.294	0.431
Copper	47	7.4	162	26.09	17.1	963.5	31.04	6.523	3.277	10.85	1.19
Lead	47	2.51	107	14.14	5.62	480.7	21.92	3.573	2.823	8.027	1.55
Mercury	1	0.65	0.65	0.65	0.65	N/A	N/A	0	N/A	N/A	N/A
Nickel	47	2.5	90	14.4	10.6	176.4	13.28	5.263	4.261	23.09	0.923
Vanadium	47	0.5	53.2	29.12	30.3	176.3	13.28	15.12	-0.0705	-0.937	0.456
Zinc	47	8.8	247	62.73	47.7	2289	47.84	18.98	2.199	5.259	0.763

Sample Identification	Sample Collected From	Placement or Sample Depth (feet)	Aroclor-1254 (mg/kg)	D_Aroclor-1254 (mg/kg)
L64-F1-5.0	Removal Area L-64	Surface	0.0515	1
L64-SW1-2.5	Removal Area L-64	Surface	0.025	0
L64-SW2-2.5	Removal Area L-64	Surface	0.025	0
L64-SW3-2.5	Removal Area L-64	Surface	0.025	0
L64-SW4-2.5	Removal Area L-64	Surface	0.025	0
A-4-1	Soil and Stockpiled Materials	surface	2.02	1
A-5-1	Soil and Stockpiled Materials	surface	0.03	0
A-5-2	Soil and Stockpiled Materials	surface	0.03	0
B-5-1	Soil and Stockpiled Materials	surface	0.03	0
L-13-3	Soil and Stockpiled Materials	4.75	2.37	1
B-5-2	Soil and Stockpiled Materials	surface	0.186	1
B-4-1	Soil and Stockpiled Materials	surface	0.03	0
B-4-2	Soil and Stockpiled Materials	surface	0.975	1
E-4-1	Soil and Stockpiled Materials	surface	0.529	1
E-4-2	Soil and Stockpiled Materials	surface	0.326	1
L-23-2	Soil and Stockpiled Materials	6.5	0.175	1
F-5-1	Soil and Stockpiled Materials	surface	0.075	1
E-5-1	Soil and Stockpiled Materials	surface	0.180	1
D-5-1	Soil and Stockpiled Materials	1	0.372	1
D-5-2	Soil and Stockpiled Materials	5.5	0.25	1
D-5-3	Soil and Stockpiled Materials	1	0.0631	1
D-5-4	Soil and Stockpiled Materials	6	0.03	0
D-4-1	Soil and Stockpiled Materials	1	0.0435	1
D-4-2	Soil and Stockpiled Materials	6	0.03	0
F-4-1	Soil and Stockpiled Materials	4	0.03	0
D-5-5	Soil and Stockpiled Materials	surface	0.03	0
D-5-6	Soil and Stockpiled Materials	surface	0.430	1
C-1-1	Soil and Stockpiled Materials	7	0.0599	1
L-64-1&2 (comp)	Soil and Stockpiled Materials	17	0.540	1
L-21-1	Soil and Stockpiled Materials	14	0.03	0
L-21- 2	Soil and Stockpiled Materials	14	0.03	0
L-11-1&3 (comp)	Soil and Stockpiled Materials	11.5	0.03	0
L-11-2	Soil and Stockpiled Materials	11.5	0.03	0
D-1-1	Soil and Stockpiled Materials	5	0.207	1
D-2-1 & C-2-1 Comp	Soil and Stockpiled Materials	0.5	0.0615	1
E-3-1	Soil and Stockpiled Materials	0.5	0.03	0
E-3-2	Soil and Stockpiled Materials	0.5	0.0655	1
L-62-2	Soil and Stockpiled Materials	6.5	0.03	0
L-62-1	Soil and Stockpiled Materials	6.5	0.294	1
L-62-3	Soil and Stockpiled Materials	6.5	0.0531	1
A-6-1	Soil and Stockpiled Materials	surface	0.03	0
B-3-1	Soil and Stockpiled Materials	surface	0.03	0
L-12A-1	Soil and Stockpiled Materials	0.5	0.03	0
L-12A-2	Soil and Stockpiled Materials	1	0.03	0
L-12A-3	Soil and Stockpiled Materials	1	0.03	0
L-12-1	Soil and Stockpiled Materials	1	0.03	0
L-12-2	Soil and Stockpiled Materials	1	0.03	0
SP-ASP-1	Soil and Stockpiled Materials	Asphalt	0.208	1
SP-ASP-2	Soil and Stockpiled Materials	Asphalt	0.570	1
SP-11-C-1-1	Soil and Stockpiled Materials	Soil	2.37	1

General UCL Statistics for Data Sets with Non-Detects

User Selected Options

From File PCBs Soil.wst
 Full Precision OFF
 Confidence Coefficient 95%
 Number of Bootstrap Operations 2000

Aroclor-1254 (mg/kg)

General Statistics

Number of Valid Data 50 Number of Detected Data 25
 Number of Distinct Detected Data 24 Number of Non-Detect Data 25
 Percent Non-Detects 50.00%

Raw Statistics

Minimum Detected 0.0435
 Maximum Detected 2.37
 Mean of Detected 0.499
 SD of Detected 0.699
 Minimum Non-Detect 0.025
 Maximum Non-Detect 0.025

Log-transformed Statistics

Minimum Detected -3.135
 Maximum Detected 0.863
 Mean of Detected -1.439
 SD of Detected 1.227
 Minimum Non-Detect -3.689
 Maximum Non-Detect -3.689

UCL Statistics

Normal Distribution Test with Detected Values Only
 Shapiro Wilk Test Statistic 0.639
 5% Shapiro Wilk Critical Value 0.918
 Data not Normal at 5% Significance Level

Lognormal Distribution Test with Detected Values Only

Shapiro Wilk Test Statistic 0.926
 5% Shapiro Wilk Critical Value 0.918
 Data appear Lognormal at 5% Significance Level

Assuming Normal Distribution

DL/2 Substitution Method
 Mean 0.256
 SD 0.547
 95% DL/2 (t) UCL 0.386

Assuming Lognormal Distribution

DL/2 Substitution Method
 Mean -2.911
 SD 1.717
 95% H-Stat (DL/2) UCL 0.524

Maximum Likelihood Estimate(MLE) Method N/A
 MLE yields a negative mean

Log ROS Method
 Mean in Log Scale -3.14
 SD in Log Scale 2.097
 Mean in Original Scale 0.256
 SD in Original Scale 0.547
 95% t UCL 0.386
 95% Percentile Bootstrap UCL 0.394
 95% BCA Bootstrap UCL 0.444

Gamma Distribution Test with Detected Values Only

k star (bias corrected) 0.729
 Theta Star 0.685
 nu star 36.44

Data Distribution Test with Detected Values Only

Data Follow Appr. Gamma Distribution at 5% Significance Level

A-D Test Statistic

5% A-D Critical Value 1.119
 K-S Test Statistic 0.781
 5% K-S Critical Value 0.181
 Data follow Appr. Gamma Distribution at 5% Significance Level

Nonparametric Statistics

Kaplan-Meier (KM) Method
 Mean 0.271
 SD 0.535
 SE of Mean 0.0772

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data
 Minimum #####
 Maximum 2.37

95% KM (t) UCL 0.401
 95% KM (z) UCL 0.398
 95% KM (jackknife) UCL 0.396
 95% KM (bootstrap t) UCL 0.473
 95% KM (BCA) UCL 0.411

Mean	0.52	95% KM (Percentile Bootstrap) UCL	0.407
Median	0.289	95% KM (Chebyshev) UCL	0.608
SD	0.608	97.5% KM (Chebyshev) UCL	0.754
k star	0.202	99% KM (Chebyshev) UCL	1.04
Theta star	2.581		
Nu star	20.16	Potential UCLs to Use	
AppChi2	10.97	95% KM (t) UCL	0.401
95% Gamma Approximate UCL	0.956		
95% Adjusted Gamma UCL	0.974		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2001). For additional insight, the user may want to consult a statistician.

From File: PCBs Soil.wst

Summary Statistics for Raw Dataset with NDs

Variable	Num Ds	NumNDs	% NDs	Raw Statistics using Detected Observations							
				Minimum	Maximum	Mean	Median	SD	MAD/0.675	Skewness	CV
Aroclor-1254 (mg/kg)	25	25	50.00%	0.0435	2.37	0.499	0.208	0.699	0.22	2.104	1.401

Sample Identification	Sample Collected From	Placement or Sample Depth (feet)	Aroclor-1254 (mg/kg)	D_Aroclor-1254 (mg/kg)
SPC-CC-1	Crushed Concrete	Basement 64	0.122	1
SPC-CC-2	Crushed Concrete	Basement 64	2.59	1
SPC-CC-3	Crushed Concrete	Basement 64	0.822	1
SPC-CC-4	Crushed Concrete	Basement 64	1.01	1
SPC-CC-5	Crushed Concrete	Basement 64	0.42	1
SPC-CC-6	Crushed Concrete	Basement 64	0.68	1
SPC-CC-7	Crushed Concrete	Basement 64	0.879	1
SPC-CC-8	Crushed Concrete	Basement 64	1.04	1
SPC-CC-9	Crushed Concrete	Basement 64	0.175	1
SPC-CC-10	Crushed Concrete	Basement 64	0.03	0
SPC-CC-11	Crushed Concrete	Basement 64	3.020	1
SPC-CC-12	Crushed Concrete	Basement 64	2.250	1
SPC-CC-13	Crushed Concrete	Basement 11	2.000	1
SPC-CC-14	Crushed Concrete	Basement 11	1.330	1
SPC-CC-15	Crushed Concrete	Basement 11 and 21	5.410	1
SPC-CC-16	Crushed Concrete	Basement 21	27.200	1
SPC-CC-17	Crushed Concrete	Basement 21	4.540	1
SPC-CC-18	Crushed Concrete	Basement 64	4.790	1
SPC-CC-19	Crushed Concrete	Basement 21	1.960	1
SPC-CC-20	Crushed Concrete	Basement 11	0.992	1
SPC-CC-21	Crushed Concrete	Basement 11	3.670	1
SPC-CC-22	Crushed Concrete	Basement 21	4.030	1
SPC-CC-23	Crushed Concrete	Basement 11	2.510	1
SPC-CC-24	Crushed Concrete	Basement 21	0.341	1
SPC-CC-25	Crushed Concrete	Basement 21	1.260	1
SPC-CC-26	Crushed Concrete	Basement 21	1.870	1
SPC-CC-27	Crushed Concrete	Western - North	0.389	1
SPC-CC-28	Crushed Concrete	Western - South	0.279	1
SPC-CC-29	Crushed Concrete	Western - North	16.10	1
SPC-CC-30	Crushed Concrete	Western - South	0.321	1
SPC-CC-31	Crushed Concrete	Eastern D	8.050	1
SPC-CC-32	Crushed Concrete	Eastern D	5.990	1
SPC-CC-33	Crushed Concrete	Eastern B	1.980	1
SPC-CC-34	Crushed Concrete	Eastern A	0.738	1
SPC-CC-35	Crushed Concrete	Eastern B	1.890	1
SPC-CC-36	Crushed Concrete	Eastern B	1.560	1
SPC-CC-37	Crushed Concrete	Eastern C	2.980	1
SPC-CC-38	Crushed Concrete	Eastern C	3.200	1
SPC-CC-39	Crushed Concrete	Eastern D	9.280	1
SPC-CC-40	Crushed Concrete	Eastern Pile 10	14.000	1
SPC-CC-41	Crushed Concrete	Eastern Pile 11	0.258	1
SPC-CC-42	Crushed Concrete	Eastern Pile 12	0.447	1
SPC-CC-43	Crushed Concrete	Eastern Pile 13	5.330	1
SPC-CC-44	Crushed Concrete	Eastern Pile 14	3.550	1
SPC-CC-45	Crushed Concrete	Eastern Pile 15	5.330	1
SPC-CC-46	Crushed Concrete	Eastern Pile 16	6.460	1
SPC-CC-47	Crushed Concrete	Eastern Pile 17	8.590	1
SPC-CC-48	Crushed Concrete	Eastern Pile 18	5.030	1
SPC-CC-49	Crushed Concrete	Eastern Pile 19	0.332	1
SPC-CC-50	Crushed Concrete	Eastern Pile 20	0.444	1
SPC-CC-51	Crushed Concrete	Eastern Pile 21	0.274	1

General UCL Statistics for Data Sets with Non-Detects

User Selected Options

From File PCBs crushed concrete -asph.wst
 Full Precision OFF
 Confidence Coefficient 95%
 Number of Bootstrap Operations 2000

Aroclor-1254 (mg/kg)

General Statistics

Number of Valid Data	51	Number of Detected Data	50
Number of Distinct Detected Data	49	Number of Non-Detect Data	1
		Percent Non-Detects	1.96%

Raw Statistics

Minimum Detected	0.122	Log-transformed Statistics	
Maximum Detected	27.2	Minimum Detected	-2.104
Mean of Detected	3.554	Maximum Detected	3.303
SD of Detected	4.825	Mean of Detected	0.547
Minimum Non-Detect	0.025	SD of Detected	1.282
Maximum Non-Detect	0.025	Minimum Non-Detect	-3.689
		Maximum Non-Detect	-3.689

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.673	Shapiro Wilk Test Statistic	0.973
5% Shapiro Wilk Critical Value	0.947	5% Shapiro Wilk Critical Value	0.947
Data not Normal at 5% Significance Level		Data appear Lognormal at 5% Significance Level	

Assuming Normal Distribution

DL/2 Substitution Method		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	3.485	Mean	0.451
SD	4.802	SD	1.445
95% DL/2 (t) UCL	4.612	95% H-Stat (DL/2) UCL	7.912

Maximum Likelihood Estimate(MLE) Method

Mean	3.429	Log ROS Method	
SD	4.822	Mean in Log Scale	0.482
95% MLE (t) UCL	4.561	SD in Log Scale	1.353
95% MLE (Tiku) UCL	4.468	Mean in Original Scale	3.486
		SD in Original Scale	4.802
		95% t UCL	4.613
		95% Percentile Bootstrap UCL	4.676
		95% BCA Bootstrap UCL	5.006

Gamma Distribution Test with Detected Values Only

k star (bias corrected)	0.785	Data Distribution Test with Detected Values Only	
Theta Star	4.53	Data appear Gamma Distributed at 5% Significance Level	
nu star	78.46		

A-D Test Statistic

5% A-D Critical Value	0.551	Nonparametric Statistics	
K-S Test Statistic	0.79	Kaplan-Meier (KM) Method	
5% K-S Critical Value	0.79	Mean	3.487
Data appear Gamma Distributed at 5% Significance Level	0.13	SD	4.753
		SE of Mean	0.672

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data		95% KM (t) UCL	4.614
Minimum	1.00E-12	95% KM (z) UCL	4.593
Maximum	27.2	95% KM (jackknife) UCL	4.613
		95% KM (bootstrap t) UCL	5.109
		95% KM (BCA) UCL	4.677

Mean	3.485	95% KM (Percentile Bootstrap) UCL	4.682
Median	1.96	95% KM (Chebyshev) UCL	6.418
SD	4.802	97.5% KM (Chebyshev) UCL	7.686
k star	0.489	99% KM (Chebyshev) UCL	10.18
Theta star	7.125		
Nu star	49.89	Potential UCLs to Use	
AppChi2	34.67	95% KM (Chebyshev) UCL	6.418
95% Gamma Approximate UCL	5.014		
95% Adjusted Gamma UCL	5.068		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2008). For additional insight, the user may want to consult a statistician.

From File: PCBs crushed concrete -asph.wst

Summary Statistics for Raw Dataset with NDs

Variable	Num Ds	NumNDs	% NDs	Raw Statistics using Detected Observations							
				Minimum	Maximum	Mean	Median	SD	MAD/0.675	Skewness	CV
Aroclor-1254 (mg/kg)	50	1	1.96%	0.122	27.2	3.554	1.97	4.825	2.343	3.067	1.358

Appendix D

*On-Site Receptors - Exposure
Scenario and Exposure Pathway
Supporting Calculations*

Table D-1
 Health Hazards from Incidental Soil Ingestion
 Soil Exposure Scenario
 616 Sunkist Street
 Ontario, California

COPC	Exposure Point Concentration (mg/kg)	Oral Reference Dose (mg/kg-d)	Worker Exposure Scenario			
			Average Daily Intake (mg/kg-d)		Hazard Quotient (Unitless)	
			Outdoor	Nonintru.	Const.	Outdoor
<i>Metals</i>						
Barium	70.32	7.0E-02	6.88E-05	2.27E-04	9.83E-04	3.24E-03
Chromium III	86.58	1.5E+00	8.47E-05	2.80E-04	5.65E-05	1.86E-04
Cobalt	9.5	2.0E-02	9.30E-06	3.07E-05	4.65E-04	1.53E-03
Copper	45.83	4.0E-02	4.48E-05	1.48E-04	1.12E-03	3.70E-03
Mercury	0.65	3.0E-04	6.36E-07	2.10E-06	2.12E-03	7.00E-03
Nickel	17.01	2.0E-02	1.66E-05	5.49E-05	8.32E-04	2.75E-03
Vanadium	32.37	7.0E-03	3.17E-05	1.05E-04	4.52E-03	1.49E-02
Zinc	76.09	3.0E-01	7.45E-05	2.46E-04	2.48E-04	8.19E-04
<i>PAHs</i>						
Anthracene	0.31	3.0E-01	3.03E-07	1.00E-06	1.01E-06	3.34E-06
Benzo(a)anthracene	2.67	NA	2.61E-06	8.62E-06	NA	NA
Benzo(a)pyrene	2.65	NA	2.59E-06	8.56E-06	NA	NA
Benzo(b)fluoranthene	4.37	NA	4.28E-06	1.41E-05	NA	NA
Benzo(g,h,i)perylene	0.51	6.0E-02	4.99E-07	1.65E-06	8.32E-06	2.74E-05
Benzo(k)fluoranthene	1.83	NA	1.79E-06	5.91E-06	NA	NA
Chrysene	2.44	NA	2.39E-06	7.88E-06	NA	NA
Fluoranthene	4.18	4.0E-02	4.09E-06	1.35E-05	1.02E-04	3.37E-04
Naphthalene	0.04	2.0E-02	3.91E-08	1.29E-07	1.96E-06	6.46E-06
Phenanthrene	0.83	6.0E-02	8.12E-07	2.68E-06	1.35E-05	4.47E-05
Pyrene	5.87	3.0E-02	5.74E-06	1.90E-05	1.91E-04	6.32E-04
<i>PCBs</i>						
Aroclor 1254	0.401	2.0E-05	3.92E-07	1.29E-06	1.96E-02	6.47E-02
<i>Pesticides</i>						
DDD	0.0318	NA	3.11E-08	1.03E-07	NA	NA
DDE	0.128	NA	1.25E-07	4.13E-07	NA	NA
DDT	0.235	5.0E-04	2.30E-07	7.59E-07	4.60E-04	1.52E-03
delta-BHC	0.0137	NA	1.34E-08	4.42E-08	NA	NA
alpha-Chlordane	0.00536	5.0E-04	5.24E-09	1.73E-08	1.05E-05	3.46E-05
gamma-Chlordane	0.00584	5.0E-04	5.71E-09	1.89E-08	1.14E-05	3.77E-05
Endrin Ketone	0.015	3.0E-04	1.47E-08	4.84E-08	4.89E-05	1.61E-04
<i>TPH</i>						
TPH C4 - C12 aliphatic	3320	1.0E-01	3.25E-03	1.07E-02	3.25E-02	1.07E-01
TPH C8 - C36 aliphatic	17100	1.0E-01	1.67E-02	5.52E-02	1.67E-01	5.52E-01
TPH C36 - C40 aliphatic	574	2.0E+00	5.62E-04	1.85E-03	2.81E-04	9.27E-04
<i>VOCs</i>						
n-Butylbenzene	2.04	4.0E-02	2.00E-06	6.59E-06	4.99E-05	1.65E-04
1,2,4-Trimethylbenzene	4.12	5.0E-02	4.03E-06	1.33E-05	8.06E-05	2.66E-04
1,3,5-Trimethylbenzene	2.15	5.0E-02	2.10E-06	6.94E-06	4.21E-05	1.39E-04
tert-Butylbenzene	7.36	4.0E-02	7.20E-06	2.38E-05	1.80E-04	5.94E-04
Total Hazard Index					2.31E-01	7.63E-01

Notes: "nd" not detected; "--" not applicable or not available; "*" chemical not a COPC for combined soil

Equations:

Industrial Worker $INTAKE_{noncancer} \text{ (mg/kg-day)} = ((CS * IR_{iw} * FE * E_{fiw} * ED_{iw} * CF) / (BW_{iw} * AT_{noncancer}))$

Construction Worker $INTAKE_{noncancer} \text{ (mg/kg-day)} = ((CS * IR_{Scw} * FE * E_{fcw} * ED_{cw} * CF) / (BW_{cw} * AT_{noncancer}))$

Noncancer Hazard = $(INTAKE_{noncancer} / RfD)$

Table D-2
 Health Hazards from Dermal Contact with Soil
 Soil Exposure Scenario
 616 Sunkist Street
 Ontario, California

COPC	Exposure Point Concentration (mg/kg)	Soil-to-Skin Absorption Factor (unitless)	Oral/Dermal Reference Dose (mg/kg-d)	Worker Exposure Scenario			
				Average Daily Intake (mg/kg-d)		Hazard Quotient (Unitless)	
				Outdoor Nonintru.	Const.	Outdoor Nonintru.	Const.
<i>Metals</i>							
Barium	70.32	0.01	7.0E-02	7.84E-06	3.14E-05	1.12E-04	4.48E-04
Chromium III	86.58	0.01	1.5E+00	9.66E-06	3.86E-05	6.44E-06	2.58E-05
Cobalt	9.5	0.01	2.0E-02	1.06E-06	4.24E-06	5.30E-05	2.12E-04
Copper	45.83	0.01	4.0E-02	5.11E-06	2.04E-05	1.28E-04	5.11E-04
Mercury	0.65	0.01	3.0E-04	7.25E-08	2.90E-07	2.42E-04	9.67E-04
Nickel	17.01	0.01	2.0E-02	1.90E-06	7.59E-06	9.49E-05	3.79E-04
Vanadium	32.37	0.01	7.0E-03	3.61E-06	1.44E-05	5.16E-04	2.06E-03
Zinc	76.09	0.01	3.0E-01	8.49E-06	3.40E-05	2.83E-05	1.13E-04
<i>PAHs</i>							
Anthracene	0.31	0.15	3.0E-01	5.19E-07	2.07E-06	1.73E-06	6.92E-06
Benzo(a)anthracene	2.67	0.13	NA	3.87E-06	1.55E-05	NA	NA
Benzo(a)pyrene	2.65	0.13	NA	3.84E-06	1.54E-05	NA	NA
Benzo(b)fluoranthene	4.37	0.13	NA	6.34E-06	2.53E-05	NA	NA
Benzo(g,h,i)perylene	0.51	0.15	6.0E-02	8.53E-07	3.41E-06	1.42E-05	5.69E-05
Benzo(k)fluoranthene	1.83	0.13	NA	2.65E-06	1.06E-05	NA	NA
Chrysene	2.44	0.13	NA	3.54E-06	1.42E-05	NA	NA
Fluoranthene	4.18	0.13	4.0E-02	6.06E-06	2.42E-05	1.52E-04	6.06E-04
Naphthalene	0.04	0.1	2.0E-02	4.46E-08	1.78E-07	2.23E-06	8.92E-06
Phenanthrene	0.83	0.15	6.0E-02	1.39E-06	5.55E-06	2.31E-05	9.26E-05
Pyrene	5.87	0.15	3.0E-02	9.82E-06	3.93E-05	3.27E-04	1.31E-03
<i>PCBs</i>							
Aroclor 1254	0.401	0.15	2.0E-05	6.71E-07	2.68E-06	3.35E-02	1.34E-01
<i>Pesticides</i>							
DDD	0.0318	0.03	NA	1.06E-08	4.26E-08	NA	NA
DDE	0.128	0.03	NA	4.28E-08	1.71E-07	NA	NA
DDT	0.235	0.03	5.0E-04	7.86E-08	3.15E-07	1.57E-04	6.29E-04
delta-BHC	0.0137	0.04	NA	6.11E-09	2.45E-08	NA	NA
alpha-Chlordane	0.00536	0.04	5.0E-04	2.39E-09	9.57E-09	4.78E-06	1.91E-05
gamma-Chlordane	0.00584	0.04	5.0E-04	2.61E-09	1.04E-08	5.21E-06	2.08E-05
Endrin Ketone	0.015	0.1	3.0E-04	1.67E-08	6.69E-08	5.58E-05	2.23E-04
<i>TPH</i>							
TPH C4 - C12 aliphatic	3320	0.1	1.0E-01	3.70E-03	1.48E-02	3.70E-02	1.48E-01
TPH C8 - C36 aliphatic	17100	0.1	1.0E-01	1.91E-02	7.63E-02	1.91E-01	7.63E-01
TPH C36 - C40 aliphatic	574	0.1	2.0E+00	6.40E-04	2.56E-03	3.20E-04	1.28E-03
<i>VOCs</i>							
n-Butylbenzene	2.04	0.1	4.0E-02	2.28E-06	9.10E-06	5.69E-05	2.28E-04
1,2,4-Trimethylbenzene	4.12	0.1	5.0E-02	4.60E-06	1.84E-05	9.19E-05	3.68E-04
1,3,5-Trimethylbenzene	2.15	0.1	5.0E-02	2.40E-06	9.59E-06	4.80E-05	1.92E-04
tert-Butylbenzene	7.36	0.1	4.0E-02	8.21E-06	3.28E-05	2.05E-04	8.21E-04
Total Hazard Index						2.64E-01	1.06E+00

Notes: "nd" not detected; "--" not applicable or not available; "*" chemical not a COPC for combined soil

Equations:

Industrial Worker $INTAKE_{noncancer} (mg/kg-day) = ((CS * SA_{iw} * AF_{iw} * ABS * FE * EF_{iw} * ED_{iw} * CF) / (BW_{iw} * AT_{noncancer}))$

Construction Worker $INTAKE_{noncancer} (mg/kg-day) = ((CS * SA_{cw} * AF_{cw} * ABS * FE * EF_{cw} * ED_{cw} * CF) / (BW_{cw} * AT_{noncancer}))$

Noncancer Hazard = $(INTAKE_{noncancer} / RID)$

Table D-3
 Health Hazards from Inhalation of Outdoor Air
 Soil Exposure Scenario
 616 Sunkist Street
 Ontario, California

COPC	Exposure Point Concentration (mg/kg)	PEF or VF (m ³ /kg)	Inhalation Reference Dose ^a (mg/kg-d)	Worker Exposure Scenario			
				Average Daily Intake (mg/kg-d)		Hazard Quotient (Unitless)	
				Outdoor Nonintru.	Const.	Outdoor Nonintru.	Const.
<i>Metals</i>							
Barium	70.32	5.89E+08	1.4E-04	1.64E-08	2.34E-08	1.15E-04	1.64E-04
Chromium III	86.58	5.89E+08	NA	2.01E-08	2.88E-08	NA	NA
Cobalt	9.5	5.89E+08	5.7E-06	2.21E-09	3.16E-09	3.88E-04	5.54E-04
Copper	45.83	5.89E+08	NA	1.07E-08	1.52E-08	NA	NA
Mercury	0.65	5.89E+08	2.6E-05	1.51E-10	2.16E-10	5.88E-06	8.40E-06
Nickel	17.01	5.89E+08	1.4E-05	3.96E-09	5.65E-09	2.77E-04	3.96E-04
Vanadium	32.37	5.89E+08	NA	7.53E-09	1.08E-08	NA	NA
Zinc	76.09	5.89E+08	NA	1.77E-08	2.53E-08	NA	NA
<i>PAHs</i>							
Anthracene	0.31	5.89E+08	3.0E-01	7.21E-11	1.03E-10	2.40E-10	3.44E-10
Benzo(a)anthracene	2.67	5.89E+08	NA	6.21E-10	8.88E-10	NA	NA
Benzo(a)pyrene	2.65	5.89E+08	NA	6.17E-10	8.81E-10	NA	NA
Benzo(b)fluoranthene	4.37	5.89E+08	NA	1.02E-09	1.45E-09	NA	NA
Benzo(g,h,i)perylene	0.51	5.89E+08	6.0E-02	1.19E-10	1.70E-10	1.98E-09	2.83E-09
Benzo(k)fluoranthene	1.83	5.89E+08	NA	4.26E-10	6.08E-10	NA	NA
Chrysene	2.44	5.89E+08	NA	5.68E-10	8.11E-10	NA	NA
Fluoranthene	4.18	5.89E+08	4.0E-02	9.73E-10	1.39E-09	2.43E-08	3.47E-08
Naphthalene	0.04	5.89E+08	2.6E-03	9.31E-12	1.33E-11	3.62E-09	5.17E-09
Phenanthrene	0.83	5.89E+08	6.0E-02	1.93E-10	2.76E-10	3.22E-09	4.60E-09
Pyrene	5.87	5.89E+08	3.0E-02	1.37E-09	1.95E-09	4.55E-08	6.50E-08
<i>PCBs</i>							
Aroclor 1254	0.401	5.89E+08	NA	9.33E-11	1.33E-10	NA	NA
<i>Pesticides</i>							
DDD	0.0318	5.89E+08	NA	7.40E-12	1.06E-11	NA	NA
DDE	0.128	5.89E+08	NA	2.98E-11	4.26E-11	NA	NA
DDT	0.235	5.89E+08	5.0E-04	5.47E-11	7.81E-11	1.09E-07	1.56E-07
delta-BHC	0.0137	5.89E+08	NA	3.19E-12	4.55E-12	NA	NA
alpha-Chlordane	0.00536	5.89E+08	2.0E-04	1.25E-12	1.78E-12	6.24E-09	8.91E-09
gamma-Chlordane	0.00584	5.89E+08	2.0E-04	1.36E-12	1.94E-12	6.79E-09	9.71E-09
Endrin Ketone	0.015	5.89E+08	3.0E-04	3.49E-12	4.99E-12	1.16E-08	1.66E-08
<i>TPH</i>							
TPH C4 - C12 aliphatic	3320	5.89E+08	2.9E-01	7.73E-07	1.10E-06	2.71E-06	3.87E-06
TPH C8 - C36 aliphatic	17100	5.89E+08	2.9E-01	3.98E-06	5.68E-06	1.40E-05	1.99E-05
TPH C36 - C40 aliphatic	574	5.89E+08	NA	1.34E-07	1.91E-07	NA	NA
<i>VOCs</i>							
n-Butylbenzene	2.04	6.11E+03	4.0E-02	4.57E-05	6.53E-05	1.14E-03	1.63E-03
1,2,4-Trimethylbenzene	4.12	1.06E+04	1.7E-03	5.33E-05	7.61E-05	3.13E-02	4.48E-02
1,3,5-Trimethylbenzene	2.15	4.33E+03	1.7E-03	6.80E-05	9.72E-05	4.00E-02	5.72E-02
tert-Butylbenzene	7.36	5.44E+03	4.0E-02	1.85E-04	2.65E-04	4.63E-03	6.62E-03
Total Hazard Index						7.79E-02	1.11E-01

Notes: "nd" not detected; "--" not applicable or not available; "*" chemical not a COPC for combined soil

Particulate Equations:

Industrial Worker $INTAKE_{noncancer} \text{ (mg/kg-day)} = (CS * EF_{iw} * ED_{iw} * (1/PEF) * IR_{Aiw}) / (BW_{iw} * AT_{noncancer})$
 Construction Worker $INTAKE_{noncancer} \text{ (mg/kg-day)} = (CS * EF_{cw} * ED_{cw} * (1/PEF) * IR_{Acw}) / (BW_{cw} * AT_{noncancer})$
 Noncancer Hazard = $(INTAKE_{noncancer} / RfD)$

Table D-4
Cumulative Health Hazards from Multipathway Soil Exposure
Soil Exposure Scenario
616 Sunkist Street
Ontario, California

COPC	Exposure Point Conc. (mg/kg)	Worker Exposure Scenario								
		Outdoor Nonintrusive				Construction				
		Ingestion	Dermal	Inhalation	Total HI	Ingestion	Dermal	Inhalation	Total HI	
<i>Metals</i>										
Barium	70.32	9.83E-04	1.12E-04	1.15E-04	1.2E-03	3.24E-03	4.48E-04	1.64E-04	3.9E-03	
Chromium III	86.58	5.65E-05	6.44E-06	NA	6.3E-05	1.86E-04	2.58E-05	NA	2.1E-04	
Cobalt	9.5	4.65E-04	5.30E-05	3.88E-04	9.1E-04	1.53E-03	2.12E-04	5.54E-04	2.3E-03	
Copper	45.83	1.12E-03	1.28E-04	NA	1.2E-03	3.70E-03	5.11E-04	NA	4.2E-03	
Mercury	0.65	2.12E-03	2.42E-04	5.88E-06	2.4E-03	7.00E-03	9.67E-04	8.40E-06	8.0E-03	
Nickel	17.01	8.32E-04	9.49E-05	2.77E-04	1.2E-03	2.75E-03	3.79E-04	3.96E-04	3.5E-03	
Vanadium	32.37	4.52E-03	5.16E-04	NA	5.0E-03	1.49E-02	2.06E-03	NA	1.7E-02	
Zinc	76.09	2.48E-04	2.83E-05	NA	2.8E-04	8.19E-04	1.13E-04	NA	9.3E-04	
<i>PAHs</i>										
Anthracene	0.31	1.01E-06	1.73E-06	2.40E-10	2.7E-06	3.34E-06	6.92E-06	3.44E-10	1.0E-05	
Benzo(a)anthracene	2.67	NA	NA	NA	--	NA	NA	NA	--	
Benzo(a)pyrene	2.65	NA	NA	NA	--	NA	NA	NA	--	
Benzo(b)fluoranthene	4.37	NA	NA	NA	--	NA	NA	NA	--	
Benzo(g,h,i)perylene	0.51	8.32E-06	1.42E-05	1.98E-09	2.3E-05	2.74E-05	5.69E-05	2.83E-09	8.4E-05	
Benzo(k)fluoranthene	1.83	NA	NA	NA	--	NA	NA	NA	--	
Chrysene	2.44	NA	NA	NA	--	NA	NA	NA	--	
Fluoranthene	4.18	1.02E-04	1.52E-04	2.43E-08	2.5E-04	3.37E-04	6.06E-04	3.47E-08	9.4E-04	
Naphthalene	0.04	1.96E-06	2.23E-06	3.62E-09	4.2E-06	6.46E-06	8.92E-06	5.17E-09	1.5E-05	
Phenanthrene	0.83	1.35E-05	2.31E-05	3.22E-09	3.7E-05	4.47E-05	9.26E-05	4.60E-09	1.4E-04	
Pyrene	5.87	1.91E-04	3.27E-04	4.55E-08	5.2E-04	6.32E-04	1.31E-03	6.50E-08	1.9E-03	
<i>PCBs</i>										
Aroclor 1254	0.401	1.96E-02	3.35E-02	NA	5.3E-02	6.47E-02	1.34E-01	NA	2.0E-01	
<i>Pesticides</i>										
DDD	0.0318	NA	NA	NA	--	NA	NA	NA	--	
DDE	0.128	NA	NA	NA	--	NA	NA	NA	--	
DDT	0.235	4.60E-04	1.57E-04	1.09E-07	6.2E-04	1.52E-03	6.29E-04	1.56E-07	2.1E-03	
delta-BHC	0.0137	NA	NA	NA	--	NA	NA	NA	--	
alpha-Chlordane	0.00536	1.05E-05	4.78E-06	6.24E-09	1.5E-05	3.46E-05	1.91E-05	8.91E-09	5.4E-05	
gamma-Chlordane	0.00584	1.14E-05	5.21E-06	6.79E-09	1.7E-05	3.77E-05	2.08E-05	9.71E-09	5.9E-05	
Endrin Ketone	0.015	4.89E-05	5.58E-05	1.16E-08	1.0E-04	1.61E-04	2.23E-04	1.66E-08	3.8E-04	
<i>TPH</i>										
TPH C4 - C12 aliphatic	3320	3.25E-02	3.70E-02	2.71E-06	7.0E-02	1.07E-01	1.48E-01	3.87E-06	2.6E-01	
TPH C8 - C36 aliphatic	17100	1.67E-01	1.91E-01	1.40E-05	3.6E-01	5.52E-01	7.63E-01	1.99E-05	1.3E+00	
TPH C36 - C40 aliphatic	574	2.81E-04	3.20E-04	NA	6.0E-04	9.27E-04	1.28E-03	NA	2.2E-03	
<i>VOCs</i>										
n-Butylbenzene	2.04	4.99E-05	5.69E-05	1.14E-03	1.2E-03	1.65E-04	2.28E-04	1.63E-03	2.0E-03	
1,2,4-Trimethylbenzene	4.12	8.06E-05	9.19E-05	3.13E-02	3.2E-02	2.66E-04	3.68E-04	4.48E-02	4.5E-02	
1,3,5-Trimethylbenzene	2.15	4.21E-05	4.80E-05	4.00E-02	4.0E-02	1.39E-04	1.92E-04	5.72E-02	5.7E-02	
tert-Butylbenzene	7.36	1.80E-04	2.05E-04	4.63E-03	5.0E-03	5.94E-04	8.21E-04	6.62E-03	8.0E-03	
Total Hazard Index						5.73E-01				1.93E+00

Notes: "nd" not detected; "--" not applicable or not available; " * " chemical not a COPC for combined soil

Table D-5
 Cancer Risks from Incidental Soil Ingestion
 Soil Exposure Scenario
 616 Sunkist Street
 Ontario, California

COPC	Exposure Point Concentration (mg/kg)	Oral Slope Factor (mg/kg-d) ⁻¹	Worker Exposure Scenario			
			Average Daily Intake (mg/kg-d)		Cancer Risk (Unitless)	
			Outdoor	Nonintru.	Const.	Outdoor
<i>Metals</i>						
Barium	70.32	NA	2.46E-05	3.24E-06	NA	NA
Chromium III	86.58	NA	3.03E-05	3.99E-06	NA	NA
Cobalt	9.5	NA	3.32E-06	4.38E-07	NA	NA
Copper	45.83	NA	1.60E-05	2.11E-06	NA	NA
Mercury	0.65	NA	2.27E-07	3.00E-08	NA	NA
Nickel	17.01	NA	5.94E-06	7.85E-07	NA	NA
Vanadium	32.37	NA	1.13E-05	1.49E-06	NA	NA
Zinc	76.09	NA	2.66E-05	3.51E-06	NA	NA
<i>PAHs</i>						
Anthracene	0.31	NA	1.08E-07	1.43E-08	NA	NA
Benzo(a)anthracene	2.67	1.2E+00	9.33E-07	1.23E-07	1.12E-06	1.48E-07
Benzo(a)pyrene	2.65	1.2E+01	9.26E-07	1.22E-07	1.11E-05	1.47E-06
Benzo(b)fluoranthene	4.37	1.2E+00	1.53E-06	2.02E-07	1.83E-06	2.42E-07
Benzo(g,h,i)perylene	0.51	NA	1.78E-07	2.35E-08	NA	NA
Benzo(k)fluoranthene	1.83	1.2E+00	6.40E-07	8.44E-08	7.67E-07	1.01E-07
Chrysene	2.44	1.2E-01	8.53E-07	1.13E-07	1.02E-07	1.35E-08
Fluoranthene	4.18	NA	1.46E-06	1.93E-07	NA	NA
Naphthalene	0.04	NA	1.40E-08	1.85E-09	NA	NA
Phenanthrene	0.83	NA	2.90E-07	3.83E-08	NA	NA
Pyrene	5.87	NA	2.05E-06	2.71E-07	NA	NA
<i>PCBs</i>						
Aroclor 1254	0.401	2.0E+00	1.40E-07	1.85E-08	2.80E-07	3.70E-08
<i>Pesticides</i>						
DDD	0.0318	2.4E-01	1.11E-08	1.47E-09	2.67E-09	3.52E-10
DDE	0.128	3.4E-01	4.47E-08	5.90E-09	1.52E-08	2.01E-09
DDT	0.235	3.4E-01	8.21E-08	1.08E-08	2.79E-08	3.69E-09
delta-BHC	0.0137	4.0E+00	4.79E-09	6.32E-10	1.92E-08	2.53E-09
alpha-Chlordane	0.00536	3.5E-01	1.87E-09	2.47E-10	6.56E-10	8.65E-11
gamma-Chlordane	0.00584	3.5E-01	2.04E-09	2.69E-10	7.14E-10	9.43E-11
Endrin Ketone	0.015	NA	5.24E-09	6.92E-10	NA	NA
<i>TPH</i>						
TPH C4 - C12 aliphatic	3320	NA	1.16E-03	1.53E-04	NA	NA
TPH C8 - C36 aliphatic	17100	NA	5.98E-03	7.89E-04	NA	NA
TPH C36 - C40 aliphatic	574	NA	2.01E-04	2.65E-05	NA	NA
<i>VOCs</i>						
n-Butylbenzene	2.04	NA	7.13E-07	9.41E-08	NA	NA
1,2,4-Trimethylbenzene	4.12	NA	1.44E-06	1.90E-07	NA	NA
1,3,5-Trimethylbenzene	2.15	NA	7.51E-07	9.92E-08	NA	NA
tert-Butylbenzene	7.36	NA	2.57E-06	3.40E-07	NA	NA
Total Cancer Risk					1.53E-05	2.02E-06

Notes: "nd" not detected; "--" not applicable or not available; "*" chemical not a COPC for combined soil

Equations:

Industrial Worker $INTAKE_{cancer} (mg/kg-day) = ((CS * IR_{Siw} * FE * EFiw * EdiW * CF) / (BW_{iw} * AT_{cancer}))$

Construction Worker $INTAKE_{cancer} (mg/kg-day) = ((CS * IR_{Scw} * FE * EFcw * EDcw * CF) / (BW_{cw} * AT_{cancer}))$

Cancer Risk = $(INTAKE_{cancer} * CSF)$

Table D-6
 Cancer Risks from Dermal Contact with Soil
 Soil Exposure Scenario
 616 Sunkist Street
 Ontario, California

COPC	Exposure Point Concentration (mg/kg)	Soil-to-Skin Absorption Factor (unitless)	Oral/Dermal Slope Factor (mg/kg-d) ⁻¹	Worker Exposure Scenario			
				Average Daily Intake (mg/kg-d)		Cancer Risk (Unitless)	
				Outdoor Nonintru.	Const.	Outdoor Nonintru.	Const.
<i>Metals</i>							
Barium	70.32	0.01	NA	2.80E-06	4.48E-07	NA	NA
Chromium III	86.58	0.01	NA	3.45E-06	5.52E-07	NA	NA
Cobalt	9.5	0.01	NA	3.78E-07	6.06E-08	NA	NA
Copper	45.83	0.01	NA	1.83E-06	2.92E-07	NA	NA
Mercury	0.65	0.01	NA	2.59E-08	4.14E-09	NA	NA
Nickel	17.01	0.01	NA	6.78E-07	1.08E-07	NA	NA
Vanadium	32.37	0.01	NA	1.29E-06	2.06E-07	NA	NA
Zinc	76.09	0.01	NA	3.03E-06	4.85E-07	NA	NA
<i>PAHs</i>							
Anthracene	0.31	0.15	NA	1.85E-07	2.96E-08	NA	NA
Benzo(a)anthracene	2.67	0.13	1.2E+00	1.38E-06	2.21E-07	1.66E-06	2.65E-07
Benzo(a)pyrene	2.65	0.13	1.2E+01	1.37E-06	2.20E-07	1.65E-05	2.64E-06
Benzo(b)fluoranthene	4.37	0.13	1.2E+00	2.26E-06	3.62E-07	2.72E-06	4.35E-07
Benzo(g,h,i)perylene	0.51	0.15	NA	3.05E-07	4.88E-08	NA	NA
Benzo(k)fluoranthene	1.83	0.13	1.2E+00	9.48E-07	1.52E-07	1.14E-06	1.82E-07
Chrysene	2.44	0.13	1.2E-01	1.26E-06	2.02E-07	1.52E-07	2.43E-08
Fluoranthene	4.18	0.13	NA	2.16E-06	3.46E-07	NA	NA
Naphthalene	0.04	0.1	NA	1.59E-08	2.55E-09	NA	NA
Phenanthrene	0.83	0.15	NA	4.96E-07	7.94E-08	NA	NA
Pyrene	5.87	0.15	NA	3.51E-06	5.61E-07	NA	NA
<i>PCBs</i>							
Aroclor 1254	0.401	0.15	2.0E+00	2.40E-07	3.83E-08	4.79E-07	7.67E-08
<i>Pesticides</i>							
DDD	0.0318	0.03	2.4E-01	3.80E-09	6.08E-10	9.12E-10	1.46E-10
DDE	0.128	0.03	3.4E-01	1.53E-08	2.45E-09	5.20E-09	8.32E-10
DDT	0.235	0.03	3.4E-01	2.81E-08	4.49E-09	9.55E-09	1.53E-09
delta-BHC	0.0137	0.04	4.0E+00	2.18E-09	3.49E-10	8.73E-09	1.40E-09
alpha-Chlordane	0.00536	0.04	3.5E-01	8.54E-10	1.37E-10	2.99E-10	4.78E-11
gamma-Chlordane	0.00584	0.04	3.5E-01	9.31E-10	1.49E-10	3.26E-10	5.21E-11
Endrin Ketone	0.015	0.1	NA	5.98E-09	9.56E-10	NA	NA
<i>TPH</i>							
TPH C4 - C12 aliphatic	3320	0.1	NA	1.32E-03	2.12E-04	NA	NA
TPH C8 - C36 aliphatic	17100	0.1	NA	6.81E-03	1.09E-03	NA	NA
TPH C36 - C40 aliphatic	574	0.1	NA	2.29E-04	3.66E-05	NA	NA
<i>VOCs</i>							
n-Butylbenzene	2.04	0.1	NA	8.13E-07	1.30E-07	NA	NA
1,2,4-Trimethylbenzene	4.12	0.1	NA	1.64E-06	2.63E-07	NA	NA
1,3,5-Trimethylbenzene	2.15	0.1	NA	8.57E-07	1.37E-07	NA	NA
tert-Butylbenzene	7.36	0.1	NA	2.93E-06	4.69E-07	NA	NA
Total Cancer Risk						2.26E-05	3.62E-06

Notes: "nd" not detected; "--" not applicable or not available; "*" chemical not a COPC for combined soil

Equations:

Industrial Worker $INTAKE_{cancer} \text{ (mg/kg-day)} = ((CS * SA_{iw} * AF_{iw} * ABS * FE * EF_{iw} * ED_{iw} * CF) / (BW_{iw} * AT_{cancer}))$

Construction Worker $INTAKE_{cancer} \text{ (mg/kg-day)} = ((CS * SA_{cw} * AF_{cw} * ABS * FE * EF_{cw} * ED_{cw} * CF) / (BW_{cw} * AT_{cancer}))$

Cancer Risk = $(INTAKE_{cancer} * CSF)$

Table D-7
 Cancer Risks from Inhalation of Outdoor Air
 Soil Exposure Scenario
 616 Sunkist Street
 Ontario, California

COPC	Exposure Point Concentration (mg/kg)	PEF or VF (m3/kg)	Inhalation Slope Factor (mg/kg-d) ⁻¹	Worker Exposure Scenario			
				Average Daily Intake (mg/kg-d)		Cancer Risk (Unitless)	
				Outdoor Nonintru.	Const.	Outdoor Nonintru.	Const.
<i>Metals</i>							
Barium	70.32	5.89E+08	NA	5.84E-09	3.34E-10	NA	NA
Chromium III	86.58	5.89E+08	NA	7.20E-09	4.11E-10	NA	NA
Cobalt	9.5	5.89E+08	9.8E+00	7.90E-10	4.51E-11	7.74E-09	4.42E-10
Copper	45.83	5.89E+08	NA	3.81E-09	2.18E-10	NA	NA
Mercury	0.65	5.89E+08	NA	5.40E-11	3.09E-12	NA	NA
Nickel	17.01	5.89E+08	9.1E-01	1.41E-09	8.08E-11	1.29E-09	7.35E-11
Vanadium	32.37	5.89E+08	NA	2.69E-09	1.54E-10	NA	NA
Zinc	76.09	5.89E+08	NA	6.32E-09	3.61E-10	NA	NA
<i>PAHs</i>							
Anthracene	0.31	5.89E+08	NA	2.58E-11	1.47E-12	NA	NA
Benzo(a)anthracene	2.67	5.89E+08	3.9E-01	2.22E-10	1.27E-11	8.65E-11	4.95E-12
Benzo(a)pyrene	2.65	5.89E+08	3.9E+00	2.20E-10	1.26E-11	8.59E-10	4.91E-11
Benzo(b)fluoranthene	4.37	5.89E+08	3.9E-01	3.63E-10	2.08E-11	1.42E-10	8.09E-12
Benzo(g,h,i)perylene	0.51	5.89E+08	NA	4.24E-11	2.42E-12	NA	NA
Benzo(k)fluoranthene	1.83	5.89E+08	3.9E-01	1.52E-10	8.69E-12	5.93E-11	3.39E-12
Chrysene	2.44	5.89E+08	3.9E-02	2.03E-10	1.16E-11	7.91E-12	4.52E-13
Fluoranthene	4.18	5.89E+08	NA	3.47E-10	1.99E-11	NA	NA
Naphthalene	0.04	5.89E+08	NA	3.32E-12	1.90E-13	NA	NA
Phenanthrene	0.83	5.89E+08	NA	6.90E-11	3.94E-12	NA	NA
Pyrene	5.87	5.89E+08	NA	4.88E-10	2.79E-11	NA	NA
<i>PCBs</i>							
Aroclor 1254	0.401	5.89E+08	2.0E+00	3.33E-11	1.90E-12	6.67E-11	3.81E-12
<i>Pesticides</i>							
DDD	0.0318	5.89E+08	2.4E-01	2.64E-12	1.51E-13	6.34E-13	3.62E-14
DDE	0.128	5.89E+08	3.4E-01	1.06E-11	6.08E-13	3.62E-12	2.07E-13
DDT	0.235	5.89E+08	3.4E-01	1.95E-11	1.12E-12	6.64E-12	3.79E-13
delta-BHC	0.0137	5.89E+08	4.0E+00	1.14E-12	6.51E-14	4.55E-12	2.60E-13
alpha-Chlordane	0.00536	5.89E+08	3.5E-01	4.45E-13	2.55E-14	1.56E-13	8.91E-15
gamma-Chlordane	0.00584	5.89E+08	3.5E-01	4.85E-13	2.77E-14	1.70E-13	9.71E-15
Endrin Ketone	0.015	5.89E+08	NA	1.25E-12	7.12E-14	NA	NA
<i>TPH</i>							
TPH C4 - C12 aliphatic	3320	5.89E+08	NA	2.76E-07	1.58E-08	NA	NA
TPH C8 - C36 aliphatic	17100	5.89E+08	NA	1.42E-06	8.12E-08	NA	NA
TPH C36 - C40 aliphatic	574	5.89E+08	NA	4.77E-08	2.73E-09	NA	NA
<i>VOCs</i>							
n-Butylbenzene	2.04	6.11E+03	NA	1.63E-05	9.33E-07	NA	NA
1,2,4-Trimethylbenzene	4.12	1.06E+04	NA	1.90E-05	1.09E-06	NA	NA
1,3,5-Trimethylbenzene	2.15	4.33E+03	NA	2.43E-05	1.39E-06	NA	NA
tert-Butylbenzene	7.36	5.44E+03	NA	6.62E-05	3.78E-06	NA	NA
Total Cancer Risk						1.03E-08	5.86E-10

Notes: "nd" not detected; "--" not applicable or not available; "*" chemical not a COPC for combined soil

Particulate Equations:

Industrial Worker $INTAKE_{cancer} (mg/kg-day) = (CS * EF_{iw} * ED_{iw} * (1/PEF) * IR_{Aiw}) / (BW_{iw} * AT_{cancer})$
 Construction Worker $INTAKE_{cancer} (mg/kg-day) = (CS * EF_{cw} * ED_{cw} * (1/PEF) * IR_{Acw}) / (BW_{cw} * AT_{cancer})$
 Cancer Risk = $(INTAKE_{cancer} * CSF)$

Table D-8
 Cumulative Cancer Risks from Multipathway Soil Exposure
 Soil Exposure Scenario
 616 Sunkist Street
 Ontario, California

COPC	Exposure Point Conc. (mg/kg)	Worker Exposure Scenario							
		Outdoor Nonintrusive				Construction			
		Ingestion	Dermal	Inhalation	Total Risk	Ingestion	Dermal	Inhalation	Total Risk
<i>Metals</i>									
Barium	70.32	NA	NA	NA	--	NA	NA	NA	--
Chromium III	86.58	NA	NA	NA	--	NA	NA	NA	--
Cobalt	9.5	NA	NA	7.7E-09	7.7E-09	NA	NA	4.4E-10	4.4E-10
Copper	45.83	NA	NA	NA	--	NA	NA	NA	--
Mercury	0.65	NA	NA	NA	--	NA	NA	NA	--
Nickel	17.01	NA	NA	1.3E-09	1.3E-09	NA	NA	7.4E-11	7.4E-11
Vanadium	32.37	NA	NA	NA	--	NA	NA	NA	--
Zinc	76.09	NA	NA	NA	--	NA	NA	NA	--
<i>PAHs</i>									
Anthracene	0.31	NA	NA	NA	--	NA	NA	NA	--
Benzo(a)anthracene	2.67	1.1E-06	1.7E-06	8.7E-11	2.8E-06	1.5E-07	2.7E-07	4.9E-12	4.1E-07
Benzo(a)pyrene	2.65	1.1E-05	1.6E-05	8.6E-10	2.8E-05	1.5E-06	2.6E-06	4.9E-11	4.1E-06
Benzo(b)fluoranthene	4.37	1.8E-06	2.7E-06	1.4E-10	4.5E-06	2.4E-07	4.3E-07	8.1E-12	6.8E-07
Benzo(g,h,i)perylene	0.51	NA	NA	NA	--	NA	NA	NA	--
Benzo(k)fluoranthene	1.83	7.7E-07	1.1E-06	5.9E-11	1.9E-06	1.0E-07	1.8E-07	3.4E-12	2.8E-07
Chrysene	2.44	1.0E-07	1.5E-07	7.9E-12	2.5E-07	1.4E-08	2.4E-08	4.5E-13	3.8E-08
Fluoranthene	4.18	NA	NA	NA	--	NA	NA	NA	--
Naphthalene	0.04	NA	NA	NA	--	NA	NA	NA	--
Phenanthrene	0.83	NA	NA	NA	--	NA	NA	NA	--
Pyrene	5.87	NA	NA	NA	--	NA	NA	NA	--
<i>PCBs</i>									
Aroclor 1254	0.401	2.8E-07	4.8E-07	6.7E-11	7.6E-07	3.7E-08	7.7E-08	3.8E-12	1.1E-07
<i>Pesticides</i>									
DDD	0.0318	2.7E-09	9.1E-10	6.3E-13	3.6E-09	3.5E-10	1.5E-10	3.6E-14	5.0E-10
DDE	0.128	1.5E-08	5.2E-09	3.6E-12	2.0E-08	2.0E-09	8.3E-10	2.1E-13	2.8E-09
DDT	0.235	2.8E-08	9.5E-09	6.6E-12	3.7E-08	3.7E-09	1.5E-09	3.8E-13	5.2E-09
delta-BHC	0.0137	1.9E-08	8.7E-09	4.6E-12	2.8E-08	2.5E-09	1.4E-09	2.6E-13	3.9E-09
alpha-Chlordane	0.00536	6.6E-10	3.0E-10	1.6E-13	9.5E-10	8.7E-11	4.8E-11	8.9E-15	1.3E-10
gamma-Chlordane	0.00584	7.1E-10	3.3E-10	1.7E-13	1.0E-09	9.4E-11	5.2E-11	9.7E-15	1.5E-10
Endrin Ketone	0.015	NA	NA	NA	--	NA	NA	NA	--
<i>TPH</i>									
TPH C4 - C12 aliphatic	3320	NA	NA	NA	--	NA	NA	NA	--
TPH C8 - C36 aliphatic	17100	NA	NA	NA	--	NA	NA	NA	--
TPH C36 - C40 aliphatic	574	NA	NA	NA	--	NA	NA	NA	--
<i>VOCs</i>									
n-Butylbenzene	2.04	NA	NA	NA	--	NA	NA	NA	--
1,2,4-Trimethylbenzene	4.12	NA	NA	NA	--	NA	NA	NA	--
1,3,5-Trimethylbenzene	2.15	NA	NA	NA	--	NA	NA	NA	--
tert-Butylbenzene	7.36	NA	NA	NA	--	NA	NA	NA	--
Total Cancer Risk					3.8E-05	5.6E-06			

Notes: "nd" not detected; "--" not applicable or not available; "*" chemical not a COPC for combined soil

Table D-9
 Health Hazards from Incidental Soil Ingestion
 Crushed Concrete Exposure Scenario
 616 Sunkist Street
 Ontario, California

COPC	Exposure Point Concentration (mg/kg)	Oral Reference Dose (mg/kg-d)	Worker Exposure Scenario			
			Average Daily Intake (mg/kg-d)		Hazard Quotient (Unitless)	
			Outdoor Nonintru.	Const.	Outdoor Nonintru.	Const.
<i>PAHs</i> Aroclor 1254	6.418	2.0E-05	6.28E-06	1.04E-05	3.14E-01	5.18E-01
Total Hazard Index					3.14E-01	5.18E-01

Notes: "nd" not detected; "--" not applicable or not available; "*" chemical not a COPC for combined soil

Equations:

Industrial Worker $INTAKE_{noncancer} \text{ (mg/kg-day)} = ((CS * IR_{iw} * FE * EF_{iw} * ED_{iw} * CF) / (BW_{iw} * AT_{noncancer}))$

Construction Worker $INTAKE_{noncancer} \text{ (mg/kg-day)} = ((CS * IR_{Scw} * FE * EF_{cw} * ED_{cw} * CF) / (BW_{cw} * AT_{noncancer}))$

Noncancer Hazard = $(INTAKE_{noncancer} / RfD)$

Table D-10
 Health Hazards from Dermal Contact with Soil
 Crushed Concrete Exposure Scenario
 616 Sunkist Street
 Ontario, California

COPC	Exposure Point Concentration (mg/kg)	Soil-to-Skin Absorption Factor (unitless)	Oral/Dermal Reference Dose (mg/kg-d)	Worker Exposure Scenario			
				Average Daily Intake (mg/kg-d)		Hazard Quotient (Unitless)	
				Outdoor Nonintr.	Const.	Outdoor Nonintr.	Const.
<i>PAHs</i> Aroclor 1254	6.418	0.14	2.0E-05	5.80E-06	4.35E-06	2.90E-01	2.18E-01
Total Hazard Index						2.90E-01	2.18E-01

Notes: "nd" not detected; "--" not applicable or not available; "*" chemical not a COPC for combined soil

Equations:

Industrial Worker $INTAKE_{noncancer} \text{ (mg/kg-day)} = ((CS * SA_{iw} * AF_{iw} * ABS * FE * EF_{iw} * ED_{iw} * CF) / (BW_{iw} * AT_{noncancer}))$

Construction Worker $INTAKE_{noncancer} \text{ (mg/kg-day)} = ((CS * SA_{cw} * AF_{cw} * ABS * FE * EF_{cw} * ED_{cw} * CF) / (BW_{cw} * AT_{noncancer}))$

Noncancer Hazard = $(INTAKE_{noncancer} / RfD)$

Table D-11
 Health Hazards from Inhalation of Outdoor Air
 Crushed Concrete Exposure Scenario
 616 Sunkist Street
 Ontario, California

COPC	Exposure Point Concentration (mg/kg)	PEF or VF (m ³ /kg)	Inhalation Reference Dose ^a (mg/kg-d)	Worker Exposure Scenario			
				Average Daily Intake (mg/kg-d)		Hazard Quotient (Unitless)	
				Outdoor Nonintr.	Const.	Outdoor Nonintr.	Const.
<i>PAHs</i> Aroclor 1254	6.418	5.89E+08	NA	2.13E-09	2.13E-09	NA	NA
Total Hazard Index						0.00E+00	0.00E+00

Notes: "nd" not detected; "--" not applicable or not available; "*" chemical not a COPC for combined soil

Particulate Equations:

Industrial Worker $INTAKE_{noncancer} (mg/kg-day) = (CS * E_{fiw} * ED_{iw} * (1/PEF) * IR_{aiw}) / (BW_{iw} * AT_{noncancer})$

Construction Worker $INTAKE_{noncancer} (mg/kg-day) = (CS * E_{fcw} * ED_{cw} * (1/PEF) * IR_{acw}) / (BW_{cw} * AT_{noncancer})$

Noncancer Hazard = $(INTAKE_{noncancer} / RfD)$

Table D-12
 Cumulative Health Hazards from Multipathway Soil Exposure
 Crushed Concrete Exposure Scenario
 616 Sunkist Street
 Ontario, California

COPC	Exposure Point Conc. (mg/kg)	Worker Exposure Scenario							
		Outdoor Nonintrusive				Construction			
		Ingestion	Dermal	Inhalation	Total HI	Ingestion	Dermal	Inhalation	Total HI
<i>PAHs</i> Aroclor 1254	6.418	3.14E-01	2.90E-01	NA	6.0E-01	5.18E-01	2.18E-01	NA	7.4E-01
Total Hazard Index					6.04E-01		7.36E-01		

Notes: "nd" not detected; "--" not applicable or not available; " * " chemical not a COPC for combined soil

Table D-13
 Cancer Risks from Incidental Soil Ingestion
 Crushed Concrete Exposure Scenario
 616 Sunkist Street
 Ontario, California

COPC	Exposure Point Concentration (mg/kg)	Oral Slope Factor (mg/kg-d) ⁻¹	Worker Exposure Scenario			
			Average Daily Intake (mg/kg-d)		Cancer Risk (Unitless)	
			Outdoor Nonintru.	Const.	Outdoor Nonintru.	Const.
<i>PAHs</i> Aroclor 1254	6.418	2.0E+00	2.24E-06	1.48E-07	4.49E-06	2.96E-07
Total Cancer Risk					4.49E-06	2.96E-07

Notes: "nd" not detected; "--" not applicable or not available; "*" chemical not a COPC for combined soil

Equations:

Industrial Worker $INTAKE_{cancer} \text{ (mg/kg-day)} = ((CS * IR-Siw * FE * EFiw * EdiW * CF) / (BWiw * AT_{cancer}))$

Construction Worker $INTAKE_{cancer} \text{ (mg/kg-day)} = ((CS * IR-Scw * FE * EFcw * EDcw * CF) / (BW_{cw} * AT_{cancer}))$

Cancer Risk = $(INTAKE_{cancer} * CSF)$

Table D-14
 Cancer Risks from Dermal Contact with Soil
 Crushed Concrete Exposure Scenario
 616 Sunkist Street
 Ontario, California

COPC	Exposure Point Concentration (mg/kg)	Soil-to-Skin Absorption Factor (unitless)	Oral/Dermal Slope Factor (mg/kg-d) ⁻¹	Worker Exposure Scenario			
				Average Daily Intake (mg/kg-d)		Cancer Risk (Unitless)	
				Outdoor Nonintr.	Const.	Outdoor Nonintr.	Const.
<i>PAHs</i> Aroclor 1254	6.418	0.14	2.0E+00	2.07E-06	6.22E-08	4.14E-06	1.24E-07
Total Cancer Risk						4.14E-06	1.24E-07

Notes: "nd" not detected; "--" not applicable or not available; "*" chemical not a COPC for combined soil

Equations:

Industrial Worker $INTAKE_{cancer} \text{ (mg/kg-day)} = ((CS * SA_{iw} * AF_{iw} * ABS * FE * EF_{iw} * ED_{iw} * CF) / (BW_{iw} * AT_{cancer}))$

Construction Worker $INTAKE_{cancer} \text{ (mg/kg-day)} = ((CS * SA_{cw} * AF_{cw} * ABS * FE * EF_{cw} * ED_{cw} * CF) / (BW_{cw} * AT_{cancer}))$

Cancer Risk = $(INTAKE_{cancer} * CSF)$

Table D-15
 Cancer Risks from Inhalation of Outdoor Air
 Crushed Concrete Exposure Scenario
 616 Sunkist Street
 Ontario, California

COPC	Exposure Point Concentration (mg/kg)	PEF or VF (m3/kg)	Inhalation Slope Factor (mg/kg-d) ⁻¹	Worker Exposure Scenario			
				Average Daily Intake (mg/kg-d)		Cancer Risk (Unitless)	
				Outdoor Nonintr.	Const.	Outdoor Nonintr.	Const.
<i>PAHs</i> Aroclor 1254	6.418	5.89E+08	2.0E+00	7.62E-10	3.05E-11	1.52E-09	6.10E-11
Total Cancer Risk						1.52E-09	6.10E-11

Notes: "nd" not detected; "--" not applicable or not available; "*" chemical not a COPC for combined soil

Particulate Equations:

Industrial Worker $INTAKE_{cancer} (mg/kg-day) = (CS * E_{fiw} * ED_{iw} * (1/PEF) * IR_{aiw}) / (BW_{iw} * AT_{cancer})$

Construction Worker $INTAKE_{cancer} (mg/kg-day) = (CS * E_{fcw} * ED_{cw} * (1/PEF) * IR_{acw}) / (BW_{cw} * AT_{cancer})$

Cancer Risk = $(INTAKE_{cancer} * CSF)$

Table D-16
 Cumulative Cancer Risks from Multipathway Soil Exposure
 Crushed Concrete Exposure Scenario
 616 Sunkist Street
 Ontario, California

COPC	Exposure Point Conc. (mg/kg)	Worker Exposure Scenario							
		Outdoor Nonintrusive				Construction			
		Ingestion	Dermal	Inhalation	Total Risk	Ingestion	Dermal	Inhalation	Total Risk
<i>PAHs</i> Aroclor 1254	6.418	4.5E-06	4.1E-06	1.5E-09	8.6E-06	3.0E-07	1.2E-07	6.1E-11	4.2E-07
Total Cancer Risk					8.6E-06	4.2E-07			

Notes: "nd" not detected; "--" not applicable or not available; "*" chemical not a COPC for combined soil

Appendix E

*Off-Site Receptors - Exposure
Scenario and Exposure Pathway
Supporting Calculations*

Table E-1
Health Hazards That May Result from Inhalation of Indoor Air
Offsite Residential Exposure Scenario
616 Sunkist Street
Ontario, California

Chemicals of Potential Concern	Ambient Air Conc. (ug/m ³)	Inhalation Reference Concentration ^a (ug/m ³)	Residential Exposure Scenario	
			Average Exposure Conc_nc (ug/m ³)	Hazard Quotient (Unitless)
			Child	Child
<i>Metals</i>				
Barium	1.42E-03	5.0E-01	1.37E-03	2.73E-03
Chromium III	1.75E-03	NA	1.68E-03	NA
Cobalt	1.92E-04	6.0E-03	1.84E-04	3.07E-02
Copper	9.28E-04	NA	8.90E-04	NA
Mercury	1.32E-05	3.0E-02	1.26E-05	4.21E-04
Nickel	3.44E-04	NA	3.30E-04	NA
Vanadium	6.55E-04	NA	6.28E-04	NA
Zinc	1.54E-03	NA	1.48E-03	NA
<i>PAHs</i>				
Anthracene	6.28E-06	NA	6.02E-06	NA
Benzo(a)anthracene	5.41E-05	NA	5.18E-05	NA
Benzo(a)pyrene	5.36E-05	NA	5.14E-05	NA
Benzo(b)fluoranthene	8.85E-05	NA	8.48E-05	NA
Benzo(g,h,i)perylene	1.03E-05	NA	9.90E-06	NA
Benzo(k)fluoranthene	3.70E-05	NA	3.55E-05	NA
Chrysene	4.94E-05	NA	4.74E-05	NA
Fluoranthene	8.46E-05	NA	8.11E-05	NA
Naphthalene	8.10E-07	9.0E+00	7.77E-07	8.63E-08
Phenanthrene	1.68E-05	NA	1.61E-05	NA
Pyrene	1.19E-04	NA	1.14E-04	NA
<i>PCBs</i>				
Aroclor 1254	1.30E-04	NA	1.25E-04	NA
<i>Pesticides</i>				
DDD	6.44E-07	NA	6.17E-07	NA
DDE	2.59E-03	NA	2.48E-03	NA
DDT	4.76E-06	NA	4.56E-06	NA
delta-BHC	2.77E-07	NA	2.66E-07	NA
alpha-Chlordane	2.27E-04	7.0E-01	2.17E-04	3.11E-04
gamma-Chlordane	1.18E-04	7.0E-01	1.13E-04	1.62E-04
Endrin Ketone	3.04E-07	NA	2.91E-07	NA
<i>TPH</i>				
TPH C4 - C12 aliphatic	6.72E-02	7.0E+02	6.45E-02	9.21E-05
TPH C8 - C36 aliphatic	3.46E-01	3.0E+02	3.32E-01	1.11E-03
TPH C36 - C40 aliphatic	1.16E-02	NA	1.11E-02	NA
Total Hazard Index				3.6E-02

Notes:

NA = Not applicable or not available

Maximum chemical concentrations detected in soil were used.

Equations:

Average Exposure Concentration_nc (ug/m³) = (CAresidential * ETchild * EFchild * EDchild) / (ATnoncancer)

Noncancer Hazard = (Exposure Concentration_nc / RfC)

Table E-2
 Cancer Risks That May Result from Inhalation of Indoor Air
 Offsite Residential Exposure Scenario
 616 Sunkist Street
 Ontrario, California

Chemicals of Potential Concern	Ambient Air Conc. (ug/m ³)	Inhalation Unit Risk (ug/m ³) ⁻¹	Residential Exposure Scenario	
			Lifetime Exposure Conc_c (ug/m ³)	Cancer Risk (Unitless)
			Adult & Child	Adult & Child
<i>Metals</i>				
Barium	1.42E-03	NA	4.29E-04	NA
Chromium III	1.75E-03	NA	5.28E-04	NA
Cobalt	1.92E-04	9.0E-03	5.80E-05	5.22E-07
Copper	9.28E-04	NA	2.80E-04	NA
Mercury	1.32E-05	NA	3.97E-06	NA
Nickel	3.44E-04	2.6E-04	1.04E-04	2.70E-08
Vanadium	6.55E-04	NA	1.97E-04	NA
Zinc	1.54E-03	NA	4.64E-04	NA
<i>PAHs</i>				
Anthracene	6.28E-06	NA	1.89E-06	NA
Benzo(a)anthracene	5.41E-05	1.1E-04	1.63E-05	1.79E-09
Benzo(a)pyrene	5.36E-05	1.1E-03	1.62E-05	1.78E-08
Benzo(b)fluoranthene	8.85E-05	1.1E-04	2.67E-05	2.93E-09
Benzo(g,h,i)perylene	1.03E-05	NA	3.11E-06	NA
Benzo(k)fluoranthene	3.70E-05	1.1E-04	1.12E-05	1.23E-09
Chrysene	4.94E-05	1.1E-05	1.49E-05	1.64E-10
Fluoranthene	8.46E-05	NA	2.55E-05	NA
Naphthalene	8.10E-07	3.4E-05	2.44E-07	8.30E-12
Phenanthrene	1.68E-05	NA	5.06E-06	NA
Pyrene	1.19E-04	NA	3.58E-05	NA
<i>PCBs</i>				
Aroclor 1254	1.30E-04	5.7E-04	3.92E-05	2.24E-08
<i>Pesticides</i>				
DDD	6.44E-07	6.9E-05	1.94E-07	1.34E-11
DDE	2.59E-03	9.7E-05	7.81E-04	7.58E-08
DDT	4.76E-06	9.7E-05	1.43E-06	1.39E-10
delta-BHC	2.77E-07	1.1E-03	8.36E-08	9.19E-11
alpha-Chlordane	2.27E-04	3.4E-04	6.83E-05	2.32E-08
gamma-Chlordane	1.18E-04	3.4E-04	3.56E-05	1.21E-08
Endrin Ketone	3.04E-07	NA	9.15E-08	NA
<i>TPH</i>				
TPH C4 - C12 aliphatic	6.72E-02	NA	2.03E-02	NA
TPH C8 - C36 aliphatic	3.46E-01	NA	1.04E-01	NA
TPH C36 - C40 aliphatic	1.16E-02	NA	3.50E-03	NA
Total Cancer Risk				7.06E-07

Notes:

NA = Not applicable or not available

Maximum chemical concentrations detected in soil were used.

Equations:

Lifetime Exposure Concentration (ug/m3) = (CA * EF * ED * ET) / (Atcancer)

Cancer Risk = (Exposure Concentration_c * IUR)

Appendix F

*Johnson and Ettinger Model
Spreadsheet*

DATA ENTRY SHEET

SG-SCREEN
PA Version 2.0; 04/

Reset to Defaults

DTSC
Vapor Intrusion Guidance
Interim Final 12/04
(last modified 2/4/09)

Soil Gas Concentration Data				Chemical	Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C _g (µg/m ³)	OR	ENTER Soil gas conc., C _g (ppmv)			
75354	7.54E+02			1,1-Dichloroethylene	NA	4.1E-03
71556	6.40E+01			1,1,1-Trichloroethane	NA	4.5E-06
71432	1.11E+02			Benzene	4.3E-07	1.4E-03
56235	9.20E+01			Carbon tetrachloride	4.9E-07	8.1E-04
67663	0.00E+00			Chloroform	0.0E+00	0.0E+00
75718	1.78E+02			Dichlorodifluoromethane	NA	2.9E-04
127184	2.22E+03			Tetrachloroethylene	1.6E-06	2.2E-02
108883	1.58E+02			Toluene	NA	2.0E-04
79016	8.50E+01			Trichloroethylene	2.2E-08	5.0E-05
75694	2.91E+03			Trichlorofluoromethane	NA	1.5E-03

MORE
↓

ENTER Depth below grade to bottom of enclosed space floor, L _F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L _s (cm)	ENTER Average soil temperature, T _S (°C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k _v (cm ²)
15	152.4	24	S		

Building =	Commercial/Industrial
Area of building sq.ft.	1,076
Area of building (cm ²)	1,000,008
Height of building ft.	10
Volume of building (cm ³)	304,802,573
Air exchange per hour	1
Ventilation rate (cm ³ /sec)	84,667
Seam perimeter (cm)	4,000
Depth below grade (ft)	5
Depth below grade (cm)	152.4
Exposure Duration (years)	25

Recommended Q_{soil} (L/m)/Building area (cm²) ratio
Q_{soil} proportional to building size 5.00E-06 5

MORE
↓

ENTER Vadose zone SCS soil type <small>Lookup Soil Parameters</small>	ENTER Vadose zone soil dry bulk density, ρ _b ^A (g/cm ³)	ENTER Vadose zone soil total porosity, n ^V (unitless)	ENTER Vadose zone soil water-filled porosity, θ _w ^V (cm ³ /cm ³)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q _{soil} (L/m)
S	1.66	0.375	0.054	5

MORE
↓

ENTER Averaging time for carcinogens, AT _C (yrs)	ENTER Averaging time for noncarcinogens, AT _{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($\text{atm}\cdot\text{m}^3/\text{mol}$)	Henry's law constant reference temperature, T_R ($^{\circ}\text{C}$)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B ($^{\circ}\text{K}$)	Critical temperature, T_C ($^{\circ}\text{K}$)	Unit risk factor, URF ($\mu\text{g}/\text{m}^3$) ⁻¹	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
9.00E-02	1.04E-05	2.60E-02	25	6,247	304.75	576.05	0.0E+00	7.0E-02	96.94
7.80E-02	8.80E-06	1.72E-02	25	7,136	347.24	545.00	0.0E+00	5.0E+00	133.40
8.80E-02	9.80E-06	5.54E-03	25	7,342	353.24	562.16	2.9E-05	3.0E-02	78.11
7.80E-02	8.80E-06	3.03E-02	25	7,127	349.90	556.60	4.2E-05	4.0E-02	153.82
1.04E-01	1.00E-05	3.66E-03	25	6,988	334.32	536.40	5.3E-06	3.0E-01	119.38
6.65E-02	9.92E-06	3.42E-01	25	9,421	243.20	384.95	0.0E+00	2.0E-01	120.92
7.20E-02	8.20E-06	1.84E-02	25	8,288	394.40	620.20	5.9E-06	3.5E-02	165.83
8.70E-02	8.60E-06	6.62E-03	25	7,930	383.78	591.79	0.0E+00	3.0E-01	92.14
7.90E-02	9.10E-06	1.03E-02	25	7,505	360.36	544.20	2.0E-06	6.0E-01	131.39
8.70E-02	9.70E-06	9.68E-02	25	5,999	296.70	471.00	0.0E+00	7.0E-01	137.36

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L _T (cm)	Vadose zone soil air-filled porosity, θ _a ^v (cm ³ /cm ³)	Vadose zone effective total fluid saturation, S _{1e} (cm ³ /cm ³)	Vadose zone soil intrinsic permeability, k _i (cm ²)	Vadose zone soil relative air permeability, k _{rg} (cm ²)	Vadose zone soil effective vapor permeability, k _v (cm ²)	Floor-wall seam perimeter, X _{crack} (cm)	Soil gas conc. (μg/m ³)	Bldg. ventilation rate, Q _{building} (cm ³ /s)
137.4	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	7.54E+02	8.47E+04
137.4	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	6.40E+01	8.47E+04
137.4	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	1.11E+02	8.47E+04
137.4	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	9.20E+01	8.47E+04
137.4	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	0.00E+00	8.47E+04
137.4	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	1.78E+02	8.47E+04
137.4	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	2.22E+03	8.47E+04
137.4	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	1.58E+02	8.47E+04
137.4	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	8.50E+01	8.47E+04
137.4	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	2.91E+03	8.47E+04

Area of enclosed space below grade, A _B (cm ²)	Crack-to-total area ratio, η	Crack depth below grade, Z _{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, ΔH _{v,TS} (cal/mol)	Henry's law constant at ave. soil temperature, H _{TS} (atm-m ³ /mol)	Henry's law constant at ave. soil temperature, H' _{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ _{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D ^{eff} _v (cm ² /s)	Diffusion path length, L _d (cm)
1.00E+06	5.00E-03	15	6,299	2.51E-02	1.03E+00	1.80E-04	1.45E-02	137.4
1.00E+06	5.00E-03	15	7,732	1.64E-02	6.73E-01	1.80E-04	1.26E-02	137.4
1.00E+06	5.00E-03	15	7,977	5.29E-03	2.17E-01	1.80E-04	1.42E-02	137.4
1.00E+06	5.00E-03	15	7,716	2.90E-02	1.19E+00	1.80E-04	1.26E-02	137.4
1.00E+06	5.00E-03	15	7,407	3.51E-03	1.44E-01	1.80E-04	1.68E-02	137.4
1.00E+06	5.00E-03	15	7,961	3.27E-01	1.34E+01	1.80E-04	1.08E-02	137.4
1.00E+06	5.00E-03	15	9,410	1.74E-02	7.14E-01	1.80E-04	1.16E-02	137.4
1.00E+06	5.00E-03	15	9,001	6.29E-03	2.58E-01	1.80E-04	1.41E-02	137.4
1.00E+06	5.00E-03	15	8,382	9.80E-03	4.02E-01	1.80E-04	1.28E-02	137.4
1.00E+06	5.00E-03	15	5,993	9.35E-02	3.84E+00	1.80E-04	1.41E-02	137.4

Convection path length, L _p (cm)	Source vapor conc., C _{source} (μg/m ³)	Crack radius, r _{crack} (cm)	Average vapor flow rate into bldg., Q _{soil} (cm ³ /s)	Crack effective diffusion coefficient, D ^{crack} (cm ² /s)	Area of crack, A _{crack} (cm ²)	Exponent of equivalent foundation Peclet number, exp(Pe ^f) (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., C _{building} (μg/m ³)
15	7.54E+02	1.25	8.33E+01	1.45E-02	5.00E+03	9.44E+04	5.51E-04	4.15E-01
15	6.40E+01	1.25	8.33E+01	1.26E-02	5.00E+03	5.50E+05	5.16E-04	3.30E-02
15	1.11E+02	1.25	8.33E+01	1.42E-02	5.00E+03	1.22E+05	5.45E-04	6.05E-02
15	9.20E+01	1.25	8.33E+01	1.26E-02	5.00E+03	5.50E+05	5.16E-04	4.75E-02
15	0.00E+00	1.25	8.33E+01	1.68E-02	5.00E+03	2.02E+04	5.86E-04	0.00E+00
15	1.78E+02	1.25	8.33E+01	1.08E-02	5.00E+03	5.41E+06	4.77E-04	8.48E-02
15	2.22E+03	1.25	8.33E+01	1.16E-02	5.00E+03	1.65E+06	4.96E-04	1.10E+00
15	1.58E+02	1.25	8.33E+01	1.41E-02	5.00E+03	1.40E+05	5.43E-04	8.57E-02
15	8.50E+01	1.25	8.33E+01	1.28E-02	5.00E+03	4.65E+05	5.19E-04	4.41E-02
15	2.91E+03	1.25	8.33E+01	1.41E-02	5.00E+03	1.40E+05	5.43E-04	1.58E+00

Unit risk factor, URF (μg/m ³) ⁻¹	Reference conc., RfC (mg/m ³)
--	---

NA	7.0E-02
NA	5.0E+00
2.9E-05	3.0E-02
4.2E-05	4.0E-02
5.3E-06	3.0E-01
NA	2.0E-01
5.9E-06	3.5E-02
NA	3.0E-01
2.0E-06	6.0E-01
NA	7.0E-01

END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)	Chemical
NA	4.1E-03	1,1-Dichloroethylene
NA	4.5E-06	1,1,1-Trichloroethane
4.3E-07	1.4E-03	Benzene
4.9E-07	8.1E-04	Carbon tetrachloride
0.0E+00	0.0E+00	Chloroform
NA	2.9E-04	Dichlorodifluoromethane
1.6E-06	2.2E-02	Tetrachloroethylene
NA	2.0E-04	Toluene
2.2E-08	5.0E-05	Trichloroethylene
NA	1.5E-03	Trichlorofluoromethane

MESSAGE SUMMARY BELOW:

END

DATA ENTRY SHEET

SG-SCREEN
PA Version 2.0; 04/

Reset to Defaults

DTSC
Vapor Intrusion Guidance
Interim Final 12/04
(last modified 2/4/09)

Soil Gas Concentration Data				Chemical	Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)
ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C _g (µg/m ³)	OR	ENTER Soil gas conc., C _g (ppmv)			
75354	1.46E+02			1,1-Dichloroethylene	NA	4.0E-04
71556	4.90E+01			1,1,1-Trichloroethane	NA	1.7E-06
71432	0.00E+00			Benzene	0.0E+00	0.0E+00
56235	2.63E+02			Carbon tetrachloride	6.8E-07	1.1E-03
67663	4.00E+01			Chloroform	1.6E-08	2.8E-05
75718	3.76E+02			Dichlorodifluoromethane	NA	2.9E-04
127184	3.04E+02			Tetrachloroethylene	1.0E-07	1.4E-03
108883	0.00E+00			Toluene	NA	0.0E+00
79016	2.31E+02			Trichloroethylene	2.9E-08	6.7E-05
75694	6.03E+02			Trichlorofluoromethane	NA	1.6E-04

MORE
↓

ENTER Depth below grade to bottom of enclosed space floor, L _F (15 or 200 cm)	ENTER Soil gas sampling depth below grade, L _s (cm)	ENTER Average soil temperature, T _S (°C)	ENTER Vadose zone SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined vadose zone soil vapor permeability, k _v (cm ²)
15	457.2	24	S		

Building =	Commercial/Industrial
Area of building sq.ft.	1,076
Area of building (cm ²)	1,000,008
Height of building ft.	10
Volume of building (cm ³)	304,802,573
Air exchange per hour	1
Ventilation rate (cm ³ /sec)	84,667
Seam perimeter (cm)	4,000
Depth below grade (ft)	15
Depth below grade (cm)	457.2
Exposure Duration (years)	25

Recommended Q_{soil} (L/m)/Building area (cm²) ratio
Q_{soil} proportional to building size 5.00E-06 5

MORE
↓

ENTER Vadose zone SCS soil type	ENTER Vadose zone soil dry bulk density, ρ _d (g/cm ³)	ENTER Vadose zone soil total porosity, n ^v (unitless)	ENTER Vadose zone soil water-filled porosity, θ _w ^v (cm ³ /cm ³)	ENTER Average vapor flow rate into bldg. (Leave blank to calculate) Q _{soil} (L/m)
S	1.66	0.375	0.054	5

MORE
↓

ENTER Averaging time for carcinogens, AT _C (yrs)	ENTER Averaging time for noncarcinogens, AT _{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	25	25	250

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H ($\text{atm}\cdot\text{m}^3/\text{mol}$)	Henry's law constant reference temperature, T_R ($^\circ\text{C}$)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B ($^\circ\text{K}$)	Critical temperature, T_C ($^\circ\text{K}$)	Unit risk factor, URF ($\mu\text{g}/\text{m}^3$) ⁻¹	Reference conc., RfC (mg/m^3)	Molecular weight, MW (g/mol)
9.00E-02	1.04E-05	2.60E-02	25	6,247	304.75	576.05	0.0E+00	7.0E-02	96.94
7.80E-02	8.80E-06	1.72E-02	25	7,136	347.24	545.00	0.0E+00	5.0E+00	133.40
8.80E-02	9.80E-06	5.54E-03	25	7,342	353.24	562.16	2.9E-05	3.0E-02	78.11
7.80E-02	8.80E-06	3.03E-02	25	7,127	349.90	556.60	4.2E-05	4.0E-02	153.82
1.04E-01	1.00E-05	3.66E-03	25	6,988	334.32	536.40	5.3E-06	3.0E-01	119.38
6.65E-02	9.92E-06	3.42E-01	25	9,421	243.20	384.95	0.0E+00	2.0E-01	120.92
7.20E-02	8.20E-06	1.84E-02	25	8,288	394.40	620.20	5.9E-06	3.5E-02	165.83
8.70E-02	8.60E-06	6.62E-03	25	7,930	383.78	591.79	0.0E+00	3.0E-01	92.14
7.90E-02	9.10E-06	1.03E-02	25	7,505	360.36	544.20	2.0E-06	6.0E-01	131.39
8.70E-02	9.70E-06	9.68E-02	25	5,999	296.70	471.00	0.0E+00	7.0E-01	137.36

END

INTERMEDIATE CALCULATIONS SHEET

Source-building separation, L_T (cm)	Vadose zone soil air-filled porosity, θ_a^v (cm ³ /cm ³)	Vadose zone effective total fluid saturation, S_{ie} (cm ³ /cm ³)	Vadose zone soil intrinsic permeability, k_i (cm ²)	Vadose zone soil relative air permeability, k_{rg} (cm ²)	Vadose zone soil effective vapor permeability, k_v (cm ²)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu\text{g}/\text{m}^3$)	Bldg. ventilation rate, $Q_{building}$ (cm ³ /s)
442.2	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	1.46E+02	8.47E+04
442.2	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	4.90E+01	8.47E+04
442.2	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	0.00E+00	8.47E+04
442.2	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	2.63E+02	8.47E+04
442.2	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	4.00E+01	8.47E+04
442.2	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	3.76E+02	8.47E+04
442.2	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	3.04E+02	8.47E+04
442.2	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	0.00E+00	8.47E+04
442.2	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	2.31E+02	8.47E+04
442.2	0.321	0.003	1.02E-07	0.998	1.01E-07	4,000	6.03E+02	8.47E+04

Area of enclosed space below grade, A_B (cm ²)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m ³ /mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Vadose zone effective diffusion coefficient, D_v^{eff} (cm ² /s)	Diffusion path length, L_d (cm)
1.00E+06	5.00E-03	15	6,299	2.51E-02	1.03E+00	1.80E-04	1.45E-02	442.2
1.00E+06	5.00E-03	15	7,732	1.64E-02	6.73E-01	1.80E-04	1.26E-02	442.2
1.00E+06	5.00E-03	15	7,977	5.29E-03	2.17E-01	1.80E-04	1.42E-02	442.2
1.00E+06	5.00E-03	15	7,716	2.90E-02	1.19E+00	1.80E-04	1.26E-02	442.2
1.00E+06	5.00E-03	15	7,407	3.51E-03	1.44E-01	1.80E-04	1.68E-02	442.2
1.00E+06	5.00E-03	15	7,961	3.27E-01	1.34E+01	1.80E-04	1.08E-02	442.2
1.00E+06	5.00E-03	15	9,410	1.74E-02	7.14E-01	1.80E-04	1.16E-02	442.2
1.00E+06	5.00E-03	15	9,001	6.29E-03	2.58E-01	1.80E-04	1.41E-02	442.2
1.00E+06	5.00E-03	15	8,382	9.80E-03	4.02E-01	1.80E-04	1.28E-02	442.2
1.00E+06	5.00E-03	15	5,993	9.35E-02	3.84E+00	1.80E-04	1.41E-02	442.2

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu\text{g}/\text{m}^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm ³ /s)	Crack effective diffusion coefficient, D^{crack} (cm ² /s)	Area of crack, A_{crack} (cm ²)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	Infinite source bldg. conc., $C_{building}$ ($\mu\text{g}/\text{m}^3$)
15	1.46E+02	1.25	8.33E+01	1.45E-02	5.00E+03	9.44E+04	2.79E-04	4.07E-02
15	4.90E+01	1.25	8.33E+01	1.26E-02	5.00E+03	5.50E+05	2.51E-04	1.23E-02
15	0.00E+00	1.25	8.33E+01	1.42E-02	5.00E+03	1.22E+05	2.74E-04	0.00E+00
15	2.63E+02	1.25	8.33E+01	1.26E-02	5.00E+03	5.50E+05	2.51E-04	6.60E-02
15	4.00E+01	1.25	8.33E+01	1.68E-02	5.00E+03	2.02E+04	3.08E-04	1.23E-02
15	3.76E+02	1.25	8.33E+01	1.08E-02	5.00E+03	5.41E+06	2.22E-04	8.36E-02
15	3.04E+02	1.25	8.33E+01	1.16E-02	5.00E+03	1.65E+06	2.36E-04	7.18E-02
15	0.00E+00	1.25	8.33E+01	1.41E-02	5.00E+03	1.40E+05	2.72E-04	0.00E+00
15	2.31E+02	1.25	8.33E+01	1.28E-02	5.00E+03	4.65E+05	2.53E-04	5.85E-02
15	6.03E+02	1.25	8.33E+01	1.41E-02	5.00E+03	1.40E+05	2.72E-04	1.64E-01

Unit risk factor, URF ($\mu\text{g}/\text{m}^3$) ⁻¹	Reference conc., RfC (mg/m ³)
NA	7.0E-02
NA	5.0E+00
2.9E-05	3.0E-02
4.2E-05	4.0E-02
5.3E-06	3.0E-01
NA	2.0E-01
5.9E-06	3.5E-02
NA	3.0E-01
2.0E-06	6.0E-01
NA	7.0E-01

END

RESULTS SHEET

INCREMENTAL RISK CALCULATIONS:

Incremental risk from vapor intrusion to indoor air, carcinogen (unitless)	Hazard quotient from vapor intrusion to indoor air, noncarcinogen (unitless)	Chemical
NA	4.0E-04	1,1-Dichloroethylene
NA	1.7E-06	1,1,1-Trichloroethane
0.0E+00	0.0E+00	Benzene
6.8E-07	1.1E-03	Carbon tetrachloride
1.6E-08	2.8E-05	Chloroform
NA	2.9E-04	Dichlorodifluoromethane
1.0E-07	1.4E-03	Tetrachloroethylene
NA	0.0E+00	Toluene
2.9E-08	6.7E-05	Trichloroethylene
NA	1.6E-04	Trichlorofluoromethane

MESSAGE SUMMARY BELOW:

END

Appendix B

*Documentation of County
Approval to Backfill Lift 64*

From: [Crutsinger, Jackson](mailto:jcrutsinger@sbcfire.org)
To: [Brett Bowyer](mailto:brettbowyer@bowyerenvironmental.com)
Subject: RE: Sunkist Ontario - Site Visit Summary - L-64 Removal Action
Date: Monday, October 04, 2010 8:21:34 AM

Thanks Brett for writing up a summary of our field inspection. I concur with your account, and confirm a verbal approval to backfill the excavation.

Jackson Crutsinger, R.E.H.S., R.H.S.P.
Hazardous Materials Specialist III
Fire Department/HAZMAT
(909) 386-8439
jcrutsinger@sbcfire.org

From: Brett Bowyer [mailto:brettbowyer@bowyerenvironmental.com]
Sent: Thursday, September 30, 2010 11:10 AM
To: Crutsinger, Jackson
Subject: Sunkist Ontario - Site Visit Summary - L-64 Removal Action

Hello Jackson,

As we discussed, I am sending you this email to summarize the Site visit that you performed on September 29, 2010. During the Site visit you observed the excavation area associated with the removal action that took place at the former lift floor structure in the Basement that formerly underlay Building 64. As per the information sent to you on September 28, 2010, the excavation took place on September 20, 2010. It was performed as a result of slightly elevated PCB concentrations that were observed in soil that underlay the concrete floor of the former lift floor structure. The excavation extended to a depth of approximately 5.0 feet beneath the former floor of the lift structure, and extended over an area of approximately 14 (east to west) by 10 (north to south) feet. As shown on the tables submitted on September 28, 2010, none of the five confirmation soil samples contained significant concentrations of PCBs.

You also observed the soil stockpile that was generated during the L-64 removal action. This stockpile will be disposed of offsite.

Based on the results provided and the site visit, you verbally approved the backfilling of the former L-64 removal action area as additional work in this area is not warranted.

We appreciate your continued responsiveness with respect to this project. If you have any questions regarding this Site Visit Summary, please feel free to call.

Thanks.

Brett Bowyer, P.G.
Bowyer Environmental Consulting, Inc.
17011 Beach Boulevard, Suite 900

Huntington Beach, CA 92647

Office: (877) BEC-INC-0

(877) 232-4620

Cell: (714) 878-7191

FAX: (714) 840-4963

brettbowyer@bowyerenvironmental.com

www.bowyerenvironmental.com

This message contains information that may be confidential, proprietary, privileged, or otherwise protected by law from disclosure or use by a third party. If you have received this message in error, please contact us immediately and take the steps necessary to delete this message completely from your computer system. Thank you.

Appendix C

*Analytical Results – Additional
PCB Sampling Activities*

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

2/1/2011

Project: Sunkist
Project Site: Sunkist
Sample Date: 1/27/2011
Lab Job No.: B11A036

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 1/27/2011 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B11A036
Project:	Sunkist	Date Sampled:	1/27/2011
Project Site:	Sunkist, Ontario	Date Received:	1/27/2011
Matrix:	Solid	Date Extracted:	1/30/2011
Extraction Method:	EPA 3550B	Date Analyzed:	1/30/2011
Batch No.:	0130-PCB-S1	Date Reported:	2/1/2011

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B11A036-1	B11A036-2	B11A036-3	B11A036-4	B11A036-5
CLIENT SAMPLE I.D.		B12-B-A2	B12-B-A5	B12-B-B2	B12-B-B4	B12-B-B4G
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	ND	76.6	ND	40.2	35.2
PCB-1260	25	ND	ND	227	207	240
Surrogate Recovery (%) QC Limit		65-140				
2,4,5,6-Tetrachloro-m-xylene		78	98	84	91	70
Decachlorobiphenyl		66	87	102	116	102

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B11A036
Project:	Sunkist	Date Sampled:	1/27/2011
Project Site:	Sunkist, Ontario	Date Received:	1/27/2011
Matrix:	Solid	Date Extracted:	1/30/2011
Extraction Method:	EPA 3550B	Date Analyzed:	1/30/2011
Batch No.:	0130-PCB-S1	Date Reported:	2/1/2011

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B11A036-6	B11A036-7	B11A036-8	B11A036-9	B11A036-10
CLIENT SAMPLE I.D.		B12-B-B6	B12-B-B8	B12-B-B9	B12-B-C1	B12-B-C3
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	29.2	ND	ND	ND	30
PCB-1260	25	95.2	ND	ND	ND	94.1
Surrogate Recovery (%)		QC Limit: 65-140				
2,4,5,6-Tetrachloro-m-xylene		74	79.5	74	74	103
Decachlorobiphenyl		125	106	93	87	87

RL: Reporting Limit.

ND: Not Detected (Below Dilution Factor x RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B11A036
Project:	Sunkist	Date Sampled:	1/27/2011
Project Site:	Sunkist, Ontario	Date Received:	1/27/2011
Matrix:	Solid	Date Extracted:	1/30/2011
Extraction Method:	EPA 3550B	Date Analyzed:	1/30/2011
Batch No.:	0130-PCB-S1	Date Reported:	2/1/2011

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B11A036-11	B11A036-12	B11A036-13	B11A036-14	B11A036-15
CLIENT SAMPLE I.D.		B12-B-C3G	B12-B-C6	B12-B-D1	B12-B-D3	B12-B-D5
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	31.4	25.6	29.8	25.8	53.4
PCB-1260	25	93.1	55.8	125	85.9	139
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		79	82	95	83	78
Decachlorobiphenyl		88	78	105	93	86

RL: Reporting Limit.

ND: Not Detected (Below Dilution Factor x RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B11A036
Project:	Sunkist	Date Sampled:	1/27/2011
Project Site:	Sunkist, Ontario	Date Received:	1/27/2011
Matrix:	Solid	Date Extracted:	1/30/2011
Extraction Method:	EPA 3550B	Date Analyzed:	1/30/2011
Batch No.:	0130-PCB-S1	Date Reported:	2/1/2011

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B11A036-16	B11A036-17	B11A036-18	B11A036-19	B11A036-20
CLIENT SAMPLE I.D.		B12-B-E3	B12-B-E6	B12-B-E7	B12-B-F2	B12-B-F4
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	ND	49	ND	91.7	119
PCB-1260	25	39	109	ND	ND	ND
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		83	77	84	86	86
Decachlorobiphenyl		102	104	81	101	81

RL: Reporting Limit.

ND: Not Detected (Below Dilution Factor x RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B11A036
Project:	Sunkist	Date Sampled:	1/27/2011
Project Site:	Sunkist, Ontario	Date Received:	1/27/2011
Matrix:	Solid	Date Extracted:	1/30/2011
Extraction Method:	EPA 3550B	Date Analyzed:	1/30/2011
Batch No.:	0130-PCB-S2	Date Reported:	2/1/2011

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1		
LAB SAMPLE I.D.		B11A036-21	B11A036-22		
CLIENT SAMPLE I.D.		B12-B-F5	B12-B-F7		
COMPOUND	RL				
PCB-1016	25	ND	ND		
PCB-1221	50	ND	ND		
PCB-1232	25	ND	ND		
PCB-1242	25	ND	ND		
PCB-1248	25	ND	ND		
PCB-1254	25	55.2	86.1		
PCB-1260	25	ND	38.5		
Surrogate Recovery (%) QC Limit: 65-140					
2,4,5,6-Tetrachloro-m-xylene		84	99		
Decachlorobiphenyl		100	97		

RL: Reporting Limit.

ND: Not Detected (Below Dilution Factor x RL).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B11A036
Project:	Sunkist	Lab Sample ID:	B11A036-21
Matrix:	Solid	Date Analyzed:	1/30/2011
Batch No.:	0130-PCB-S1	Date Reported:	2/1/2011

I. MS/MSD Report

Unit: ug/kg

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	55.2	500	410	430	71	75	5	≤30	70-135
Surrogate Recovery (%)									
2,4,5,6-Tetrachloro-m-xylene					93	95			65-140
Decachlorobiphenyl					89	93			65-140

II. MB/LCS Report

Unit: ug/kg

Analyte	Method Blank	Report Value	True Value	Rec.%	Accept Limit
PCB-254	ND	444	500	89	75-130
Surrogate Recovery (%)					
2,4,5,6-Tetrachloro-m-xylene	80			77	65-140
Decachlorobiphenyl	75			98	65-140

ND: Not Detected (Below RL).

MB: Method Blank.

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B11A036
Project:	Sunkist	Lab Sample ID:	LCS
Matrix:	Solid	Date Analyzed:	1/30/2011
Batch No.:	0130-PCB-S2	Date Reported:	2/1/2011

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	437	438	87	88	0	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-Tetrachloro-m-xylene	89				114	108			65-140
Decachlorobiphenyl	106				129	101			65-140

ND: Not Detected (Below RL).

MB: Method Blank.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B11A036
Project:	Sunkist	Date Sampled:	1/27/2011
Project Site:	Sunkist, Ontario	Date Received:	1/27/2011
Matrix:	Aqueous	Date Extracted:	1/30/2011
Extraction Method:	EPA 3510C	Date Analyzed:	1/30/2011
Batch No.:	0130-PCB-W	Date Reported:	2/1/2011

EPA 8082 (PCBs)

Reporting Unit: µg/L (ppb)

DILUTION FACTOR		1	1		
LAB SAMPLE I.D.		B11A036-23	B11A036-24		
CLIENT SAMPLE I.D.		ERB-1	ERB-2		
COMPOUND	RL				
PCB-1016	5	ND	ND		
PCB-1221	5	ND	ND		
PCB-1232	5	ND	ND		
PCB-1242	5	ND	ND		
PCB-1248	5	ND	ND		
PCB-1254	5	ND	ND		
PCB-1260	5	ND	ND		
Surrogate Recovery (%) QC Limit: 65-140					
2,4,5,6-Tetrachloro-m-xylene		105	84		
Decachlorobiphenyl		100	116		

RL: Reporting Limit.

ND: Not Detected (Below Dilution Factor x RL).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B11A036

Project: Sunkist

Lab Sample ID: LCS

Matrix: Water

Date Analyzed: 1/30/2011

Batch No.: 0130-PCB-W

Date Reported: 2/1/2011

MB/LCS/LCSD Report

Unit: ug/L

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	419	465	84	93	10	≤30	75-130
Surrogate Recovery (%)									
2,4,5,6-Tetrachloro-m-xylene	89				82	89			65-140
Decachlorobiphenyl	106				84	85			65-140

ND: Not Detected (Below RL).

MB: Method Blank.



**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761

Tel: 562-413-8343

Tel/ Fax: 909-923-8628

Page 1 of 4

Lab Job Number B11A036

CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested					
Address <u>7011 Beach Blvd, HB, CA</u>		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal												<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal					
Report Attention	Phone # Fax: # <u>877-232-4620</u>	Sampled By <u>Willy/Brian</u>																	
Project No./ Name	Project Site <u>Sunkist Ontario</u>																		
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks	
B12-B-A1		1/27/11	10:05am	Solid	ICE	1-G							X						Hold
B12-B-A2	B11A036-1		10:09am	Solid															Hold
B12-B-A3			10:17am																Hold
B12-B-A4			10:22am																Hold
B12-B-A5	B11A036-2		10:25am																Hold
B12-B-A6			10:28am																Hold
B12-B-B1			10:35am																Hold
B12-B-B2	B11A036-3		10:40am																Hold
B12-B-B3			10:45am																Hold
B12-B-B4	B11A036-4		10:50am																Hold
B12-B-B4G	B11A036-5		10:50am																Hold
B12-B-B5			10:55am																Hold
B12-B-B6	B11A036-6		10:58am																Hold
B12-B-B7			11:05am																Hold
B12-B-B8	B11A036-7		11:05am																Hold
Relinquished By <u>Brian</u>	Company <u>BEC</u>	Date <u>1/27/11</u>	Time <u>3:46pm</u>	Received By <u>J. Franck</u>	Company <u>ABC Labs</u>	Date <u>1/27/11</u>	Time <u>3:46PM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.											
Relinquished By	Company	Date	Time	Received By	Company	Date	Time												

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested <input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal					
Address <u>17011 Beach Blvd, HB, CA</u>		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal																	
Report Attention	Phone # Fax: # <u>877-232-4620</u>	Sampled By <u>Willy/Brian</u>																	
Project No./ Name	Project Site <u>Sunkist Ontario</u>																		
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks	
		Date	Time																
<u>B12-B-B9</u>	<u>B11A036-8</u>	<u>1/27/11</u>	<u>11:20am</u>	<u>Solid</u>	<u>ICE</u>	<u>1-G</u>							<u>X</u>						
<u>B12-B-C1</u>	<u>B11A036-9</u>		<u>11:42am</u>																
<u>B12-B-C2</u>			<u>11:48am</u>																<u>Hold</u>
<u>B12-B-C3</u>	<u>B11A036-10</u>		<u>11:51am</u>																
<u>B12-B-C3G</u>	<u>↓ -11</u>		<u>11:51am</u>																
<u>B12-B-C4</u>			<u>11:56am</u>																<u>Hold</u>
<u>B12-B-C5</u>			<u>11:59am</u>																<u>Hold</u>
<u>B12-B-C6</u>	<u>B11A036-12</u>		<u>12:04pm</u>																<u>Hold</u>
<u>B12-B-C7</u>			<u>12:08pm</u>																<u>Hold</u>
<u>B12-B-D1</u>	<u>B11A036-13</u>		<u>12:13pm</u>																<u>Hold</u>
<u>B12-B-D2</u>			<u>12:17pm</u>																<u>Hold</u>
<u>B12-B-D3</u>	<u>B11A036-14</u>		<u>12:19pm</u>																<u>Hold</u>
<u>B12-B-D4</u>			<u>12:22pm</u>																<u>Hold</u>
<u>B12-B-D5</u>	<u>B11A036-15</u>		<u>12:24pm</u>																<u>Hold</u>
<u>B12-B-E1</u>			<u>1:07pm</u>																<u>Hold</u>
Relinquished By <u>[Signature]</u>	Company <u>BEC</u>	Date <u>1/27/11</u>	Time <u>3:49pm</u>	Received By <u>[Signature]</u>	Company <u>ABC Labs</u>	Date <u>1/27/11</u>	Time <u>3:49PM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.											
Relinquished By	Company	Date	Time	Received By	Company	Date	Time												

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste	SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product	Preservative Code: IC=Ice, HC=HCl, HN=HNO3	SH=NaOH, ST=Na2S2O3, HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST=Steel Tube	B= Brass Tube, P=Plastic Bottle, V=VOA Vial	E= EnCore
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**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761
Tel: 562-413-8343
Tel/ Fax: 909-923-8628

Page 3 of 4
Lab Job Number B11A036

CHAIN OF CUSTODY

Client Name: <u>BEC</u>		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested					
Address: <u>17022 Beach Blvd. H.B. 92647</u>		<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal												<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal					
Report Attention: <u>BEC</u>	Phone #: <u>877-232-4626</u>	Sampled By: <u>Brian Wally</u>																	
Project No./ Name	Project Site: <u>Sunkst Ontario</u>																		
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks	
		Date	Time																
B12-B-E2		1/27/11	1:09pm	Solid	ICE	1-G							X						Hold
B12-B-E3	B11A036-16		1:14pm																Hold
B12-B-E4			1:22pm																Hold
B12-B-E5			1:26pm																Hold
B12-B-ESG			1:26pm																Hold
B12-B-E6	B11A036-17		1:56pm																
B12-B-E7	✓ -18		2:00pm																
B12-B-F1			2:03pm																Hold
B12-B-F2	B11A036-19		2:08pm																
B12-B-F3	MSD-3		2:13pm																Hold
B12-B-F4	B11A036-20		2:13pm																
B12-B-F5	MSD-2 ✓-21		2:18pm																
B12-B-F6			2:20pm																Hold
B12-B-F7	B11A036-22		2:26pm																
ERB-1	✓ -23	✓	9:40am	Hexane Rinse															
Relinquished By: <u>BEC</u>	Company: <u>BEC</u>	Date: <u>1/27/11</u>	Time: <u>3:47pm</u>	Received By: <u>J. [Signature]</u>	Company: <u>ABC Labs</u>	Date: <u>1/27/11</u>	Time: <u>3:47PM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.											
Relinquished By:	Company:	Date:	Time:	Received By:	Company:	Date:	Time:												

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product, Preservative Code: IC=Ice, HC=HCl, HN=HNO3, SH=NaOH, ST=Na2S2O3, HS=H2SO4, * Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST=Steel Tube, B= Brass Tube, P=Plastic Bottle, V=VOA Vial, E= EnCore



CHAIN OF CUSTODY

Client Name <u>BEC</u>			Sample Receipt Conditions			Analyses Requested										Turn Around Time Requested			
Address <u>17021 Beach Blvd, H.B, Ca. 92647</u>			<input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal													<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal			
Report Attention <u>DEC</u>	Phone # Fax: # <u>1-877-232-4620</u>	Sampled By <u>Brian/Charles</u>																	
Project No./ Name	Project Site <u>Sunkist Ontario</u>																		
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks	
		Date	Time																
ERB-1		1/27/11																	
ERB-2	B11A036-24	1/27/11	2:30pm	Water	ICE	1-G							X						

Relinquished By <u>Brian</u>	Company <u>BEC</u>	Date <u>1/27/11</u>	Time <u>3:45pm</u>	Received By <u>J. Jones</u>	Company <u>ABC Labs</u>	Date <u>1/27/11</u>	Time <u>3:44AM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product, Preservative Code: IC=Ice, HC=HCl, HN=HNO3, SH=NaOH, ST=Na2S2O3, HS=H2SO4, * Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST= Steel Tube, B= Brass Tube, P=Plastic Bottle, V=VOA Vial, E= EnCore

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

2/10/2011

Project: Sunkist
Project Site: Sunkist
Sample Date: 1/27/2011
Lab Job No.: B11A036A

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 1/27/2011 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B11A036A
Project:	Sunkist	Date Sampled:	1/27/2011
Project Site:	Sunkist, Ontario	Date Received:	1/27/2011
Matrix:	Solid	Date Extracted:	2/8/2011
Extraction Method:	EPA 3550B	Date Analyzed:	2/9/2011
Batch No.:	0209-PCB-S	Date Reported:	2/10/2011

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B11A036-25	B11A036-26	B11A036-27	B11A036-28	B11A036-29
CLIENT SAMPLE I.D.		B12-B-A3	B12-B-A6	B12-B-B3	B12-B-B5	B12-B-B7
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	ND	120	28.2	45.2	45.4
PCB-1260	25	ND	ND	302	65.4	120
Surrogate Recovery (%)		QC Limit 65-140				
2,4,5,6-Tetrachloro-m-xylene		87	104	94	97	100
Decachlorobiphenyl		70	100	78	102	91

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B11A036A
Project:	Sunkist	Date Sampled:	1/27/2011
Project Site:	Sunkist, Ontario	Date Received:	1/27/2011
Matrix:	Solid	Date Extracted:	2/8/2011
Extraction Method:	EPA 3550B	Date Analyzed:	2/9/2011
Batch No.:	0209-PCB-S	Date Reported:	2/10/2011

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B11A036-30	B11A036-31	B11A036-32	B11A036-33	B11A036-34
CLIENT SAMPLE I.D.		B12-B-C2	B12-B-C4	B12-B-C5	B12-B-C7	B12-B-D2
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	31.4	46.6	27.8	26.2	32
PCB-1260	25	87.6	115	68.3	74.8	86.1
Surrogate Recovery (%) QC Limit:		65-140				
2,4,5,6-Tetrachloro-m-xylene		99	105	82	92	77
Decachlorobiphenyl		91	103	90	119	99

RL: Reporting Limit.

ND: Not Detected (Below Dilution Factor x RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B11A036A
Project:	Sunkist	Date Sampled:	1/27/2011
Project Site:	Sunkist, Ontario	Date Received:	1/27/2011
Matrix:	Solid	Date Extracted:	2/8/2011
Extraction Method:	EPA 3550B	Date Analyzed:	2/9/2011
Batch No.:	0209-PCB-S	Date Reported:	2/10/2011

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	
LAB SAMPLE I.D.		B11A036-35	B11A036-36	B11A036-37	B11A036-38	
CLIENT SAMPLE I.D.		B12-B-D4	B12-B-E2	B12-B-E4	B12-B-F3	
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	
PCB-1221	50	ND	ND	ND	ND	
PCB-1232	25	ND	ND	ND	ND	
PCB-1242	25	ND	ND	ND	ND	
PCB-1248	25	ND	ND	ND	ND	
PCB-1254	25	43.2	122	32.4	ND	
PCB-1260	25	151	ND	115	33.9	
Surrogate Recovery (%) QC Limit: 65-140						
2,4,5,6-Tetrachloro-m-xylene		84	82	78	86	
Decachlorobiphenyl		105	106	109	103	

RL: Reporting Limit.

ND: Not Detected (Below Dilution Factor x RL).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B11A036A
Project:	Sunkist	Lab Sample ID:	B11A036-38
Matrix:	Solid	Date Analyzed:	2/9/2011
Batch No.:	0209-PCB-S	Date Reported:	2/10/2011

I. MS/MSD Report

Unit: ug/kg

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	393	356	79	71	10	≤30	70-135
Surrogate Recovery (%)									
2,4,5,6-Tetrachloro-m-xylene					95	93			65-140
Decachlorobiphenyl					66	77			65-140

II. MB/LCS Report

Unit: ug/kg

Analyte	Method Blank	Report Value	True Value	Rec.%	Accept Limit
PCB-254	ND	385	500	77	75-130
Surrogate Recovery (%)					
2,4,5,6-Tetrachloro-m-xylene	115			111	65-140
Decachlorobiphenyl	82			65	65-140

ND: Not Detected (Below RL).

MB: Method Blank.



**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761
Tel: 562-413-8343
Tel/ Fax: 909-923-8628

Page 1 of 4
Lab Job Number B11A036A

CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested															
Address <u>7011 Beach Blvd, HB, CA</u>		<input checked="" type="checkbox"/> Chilled		<table border="1"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B(BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals					<input type="checkbox"/> Rush 8 12 24 48 Hours
EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)											EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals									
Report Attention	Phone # Fax: # <u>877-232-4620</u>	<input checked="" type="checkbox"/> Intact		<input type="checkbox"/> Sample Seal											<input checked="" type="checkbox"/> Normal														
Project No./ Name	Project Site <u>Sunkist Ontario</u>													Remarks															
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container											Remarks												
		Date	Time																										
B12-B-A1		1/27/11	10:05am	Solid	ICE	1-G											Hold												
B12-B-A2	B11A036-1		10:09am	Solid																									
B12-B-A3	-25		10:17am														Hold												
B12-B-A4			10:22am														Hold												
B12-B-A5	B11A036-2		10:25am																										
B12-B-A6	-26		10:28am														Hold												
B12-B-B1			10:35am														Hold												
B12-B-B2	B11A036-3		10:40am																										
B12-B-B3	-27		10:45am														Hold												
B12-B-B4	B11A036-4		10:50am																										
B12-B-B4G	B11A036-5		10:50am														Hold												
B12-B-B5	-28		10:55am														Hold												
B12-B-B6	B11A036-6		10:58am																										
B12-B-B7	-29		11:05am														Hold												
B12-B-B8	B11A036-7		11:05am																										
Relinquished By <u>Brian</u>	Company <u>BEC</u>	Date <u>1/27/11</u>	Time <u>3:46pm</u>	Received By <u>J. Fran</u>	Company <u>ABC Labs</u>	Date <u>1/27/11</u>	Time <u>3:46pm</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.																					
Relinquished By	Company	Date	Time	Received By	Company	Date	Time																						

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested										Turn Around Time Requested			
Address <u>17011 Beach Blvd, HB, CA</u>		<input checked="" type="checkbox"/> Chilled		EPA8260B (VOCs & Oxygenates) EPA8260B(BTEX & Oxygenates) EPA8021B (BTEX & MTBE) EPA8015M / 8015B (Gasoline) EPA8015M / 8015B (Diesel) EPA8081A (Organochlorine Pesticides) EPA 8082 (PCBs) EPA418.1 (TRPH) EPA8015M (Carbon Chain) EPA 7000s (Metals) CAM 17 Metals										<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal			
Report Attention	Phone # Fax: # <u>877-232-4620</u>	<input checked="" type="checkbox"/> Intact												Remarks			
Project No./ Name	Project Site <u>Sunkist Ontario</u>	<input type="checkbox"/> Sample Seal															
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container											Remarks
		Date	Time														
<u>B12-B-B9</u>	<u>B11A036-8</u>	<u>1/27/11</u>	<u>11:20am</u>	<u>Solid</u>	<u>ICE</u>	<u>1-G</u>											
<u>B12-B-C1</u>	<u>B11A036-9</u>		<u>11:42am</u>														
<u>B12-B-C2</u>	<u>-30</u>		<u>11:48am</u>														<u>Hold</u>
<u>B12-B-C3</u>	<u>B11A036-10</u>		<u>11:51am</u>														
<u>B12-B-C3G</u>	<u>↓ -11</u>		<u>11:51am</u>														
<u>B12-B-C4</u>	<u>-31</u>		<u>11:56am</u>														<u>Hold</u>
<u>B12-B-C5</u>	<u>-32</u>		<u>11:59am</u>														<u>Hold</u>
<u>B12-B-C6</u>	<u>B11A036-12</u>		<u>12:04pm</u>														
<u>B12-B-C7</u>	<u>-33</u>		<u>12:08pm</u>														<u>Hold</u>
<u>B12-B-D1</u>	<u>B11A036-13</u>		<u>12:13pm</u>														
<u>B12-B-D2</u>	<u>-34</u>		<u>12:17pm</u>														<u>Hold</u>
<u>B12-B-D3</u>	<u>B11A036-14</u>		<u>12:19pm</u>														
<u>B12-B-D4</u>	<u>-35</u>		<u>12:22pm</u>														<u>Hold</u>
<u>B12-B-D5</u>	<u>B11A036-15</u>		<u>12:24pm</u>														
<u>B12-B-E1</u>			<u>1:07pm</u>														<u>Hold</u>
Relinquished By <u>[Signature]</u>	Company <u>BEC</u>	Date <u>1/27/11</u>	Time <u>3:49pm</u>	Received By <u>[Signature]</u>	Company <u>ABC Labs</u>	Date <u>1/27/11</u>	Time <u>3:49 PM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.									
Relinquished By	Company	Date	Time	Received By	Company	Date	Time										

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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**Environmental
Laboratories, Inc.**

1640B S. Grove Ave., Ontario, CA 91761
Tel: 562-413-8343
Tel/ Fax: 909-923-8628

Page 3 of 4
Lab Job Number B11A036A

CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested											Turn Around Time Requested				
Address <u>17022 Beach Blvd. H.B. 92647</u>		<input checked="" type="checkbox"/> Chilled		<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal											Remarks				
Report Attention <u>BEC</u>	Phone # <u>877-232-4626</u>	Fax: # <u>877-232-4626</u>	Sampled By <u>Brian Wally</u>														<input checked="" type="checkbox"/> Intact		
Project No./ Name	Project Site <u>Sunkst Ontario</u>			<input type="checkbox"/> Sample Seal															
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks	
B12-B-E2	-36	1/27/11	1:09pm	Solid	ICE	1-G							X						Hold
B12-B-E3	B11A036-16		1:14pm																
B12-B-E4	-37		1:22pm																Hold
B12-B-E5			1:26pm																Hold
B12-B-E5G			1:26pm																Hold
B12-B-E6	B11A036-17		1:56pm																
B12-B-E7	✓-18		2:00pm																
B12-B-F1			2:03pm																Hold
B12-B-F2	B11A036-19		2:08pm																
B12-B-F3	MSD-1 -38		2:13pm																Hold
B12-B-F4	B11A036-20		2:13pm																
B12-B-F5	MSD-2 ✓-21		2:18pm																
B12-B-F6			2:20pm																Hold
B12-B-F7	B11A036-22		2:26pm																
ERB-1	✓-23	✓	9:40am	Hexane Rinse															
Relinquished By <u>BEC</u>	Company <u>BEC</u>	Date <u>1/27/11</u>	Time <u>3:47pm</u>	Received By <u>J. Jones</u>	Company <u>ABC Labs</u>	Date <u>1/27/11</u>	Time <u>3:47PM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.											
Relinquished By	Company	Date	Time	Received By	Company	Date	Time												

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product, Preservative Code: IC=Ice, HC=HCl, HN=HNO3, SH=NaOH, ST=Na2S2O3, HS=H2SO4, * Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST=Steel Tube, B= Brass Tube, P=Plastic Bottle, V=VOA Vial, E= EnCore



CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions		Analyses Requested												Turn Around Time Requested															
Address <u>17021 Beach Blvd, H.B, Ca. 92647</u>		<input checked="" type="checkbox"/> Chilled		<table border="1"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B (BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>												EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals					<input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal
EPA8260B (VOCs & Oxygenates)	EPA8260B (BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)													EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals									
Report Attention <u>DEC</u>	Phone # Fax: # <u>1-877-232-4620</u>	<input checked="" type="checkbox"/> Intact																													
Project No./ Name	Project Site <u>Sunkist Ontario</u>		<input type="checkbox"/> Sample Seal																												
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container													Remarks												
ERB-1		1/27/11																													
ERB-2	B11A036-24	1/27/11	2:30pm	Water	ICE	1-G																									

Relinquished By <u>[Signature]</u>	Company <u>BEC</u>	Date <u>1/27/11</u>	Time <u>3:45pm</u>	Received By <u>[Signature]</u>	Company <u>ABC Labs</u>	Date <u>1/27/11</u>	Time <u>3:44PM</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO3	SH=NaOH ST=Na2S2O3 HS=H2SO4	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

2/21/2011

Project: Sunkist
Project Site: Sunkist
Sample Date: 2/17/2011
Lab Job No.: B11B017

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 2/17/2011 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B11B017
Project:	Sunkist	Date Sampled:	2/17/2011
Project Site:	Sunkist, Ontario	Date Received:	2/17/2011
Matrix:	Solid	Date Extracted:	2/17/2011
Extraction Method:	EPA 3550B	Date Analyzed:	2/18/2011
Batch No.:	0218-PCB-S	Date Reported:	2/21/2011

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1
LAB SAMPLE I.D.		B11B017-1	B11B017-2	B11B017-3	B11B017-4
CLIENT SAMPLE I.D.		B12-B-B3-S1/2	B12-B-C3-S3	B12-B-B8-S1/2	B12-B-B3-S4
COMPOUND	RL				
PCB-1016	25	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND
PCB-1254	25	ND	ND	ND	ND
PCB-1260	25	ND	ND	ND	ND
Surrogate Recovery (%)		QC Limit 65-140			
2,4,5,6-Tetrachloro-m-xylene		92	92	87	71
Decachlorobiphenyl		101	89	85	72

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B11B017
Project:	Sunkist	Date Sampled:	2/17/2011
Project Site:	Sunkist, Ontario	Date Received:	2/17/2011
Matrix:	Solid	Date Extracted:	2/17/2011
Extraction Method:	EPA 3550B	Date Analyzed:	2/18/2011
Batch No.:	0218-PCB-S	Date Reported:	2/21/2011

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1
LAB SAMPLE I.D.		B11B017-5	B11B017-6	B11B017-7	B11B017-8
CLIENT SAMPLE I.D.		B12-B-B8-S5	B12-B-E3-S1/2	B12-B-E3-S5	B12-B-B4-S31/2
COMPOUND	RL				
PCB-1016	25	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND
PCB-1254	25	ND	ND	ND	ND
PCB-1260	25	ND	ND	ND	ND
Surrogate Recovery (%)		QC Limit 65-140			
2,4,5,6-Tetrachloro-m-xylene		96	114	99	91
Decachlorobiphenyl		90	115	98	92

ND: Not Detected (Below RL).

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B11B017
Project:	Sunkist	Date Sampled:	2/17/2011
Project Site:	Sunkist, Ontario	Date Received:	2/17/2011
Matrix:	Solid	Date Extracted:	2/17/2011
Extraction Method:	EPA 3550B	Date Analyzed:	2/18/2011
Batch No.:	0218-PCB-S	Date Reported:	2/21/2011

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1		
LAB SAMPLE I.D.		B11B017-9	B11B017-10		
CLIENT SAMPLE I.D.		B12-B-C3-S1/2	B12-B-B4-S1/2		
COMPOUND	RL				
PCB-1016	25	ND	ND		
PCB-1221	50	ND	ND		
PCB-1232	25	ND	ND		
PCB-1242	25	ND	ND		
PCB-1248	25	ND	ND		
PCB-1254	25	ND	ND		
PCB-1260	25	ND	ND		
Surrogate Recovery (%)		QC Limit: 65-140			
2,4,5,6-Tetrachloro-m-xylene		105	78		
Decachlorobiphenyl		107	83		

RL: Reporting Limit.

ND: Not Detected (Below Dilution Factor x RL).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client:	Bowyer Environmental	Lab Job No.:	B11B017
Project:	Sunkist	Lab Sample ID:	B11B017-10
Matrix:	Solid	Date Analyzed:	2/18/2011
Batch No.:	0218-PCB-S	Date Reported:	2/21/2011

I. MS/MSD Report

Unit: ug/kg

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
PCB-1254	ND	500	514	464	103	93	10	≤30	70-135
Surrogate Recovery (%)									
2,4,5,6-TMX					96	102			65-140
Decachlorobiphenyl					72	75			65-140

II. MB/LCS Report

Unit: ug/kg

Analyte	Method Blank	Report Value	True Value	Rec.%	Accept Limit
PCB-254	ND	446	500	89	75-130
Surrogate Recovery (%)					
2,4,5,6-TMX	91			81	65-140
Decachlorobiphenyl	86			79	65-140

ND: Not Detected (Below RL).

MB: Method Blank.



CHAIN OF CUSTODY

Client Name <u>BEC</u>		Sample Receipt Conditions <input checked="" type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal	Analyses Requested										Turn Around Time Requested <input type="checkbox"/> Rush 8 12 24 48 Hours <input checked="" type="checkbox"/> Normal
Address <u>7011 Beach Blvd. H.B. Ca.</u>													
Report Attention <u>BEC</u>	Phone # <u>877-232-4620</u>	Sampled By <u>Brian/Willy</u>											
Project No./ Name	Project Site <u>Sunkist</u>												

Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks	
		Date	Time																
B12-B-B3-S ¹ / ₂	B11B017-1	2/7/11	9:28am	Soil	ICE	1-ST							X						
B12-B-C3-S3	-2		11:58am																
B12-B-B8-S ¹ / ₂	-3		2:34pm																
B12-B-B3-S4	-4		10:19am																
B12-B-B8-S5	-5		3:18pm																
B12-B-E3-S ¹ / ₂	-6		9:28am																
B12-B-E3-S5	-7		3:16pm																
B12-B-B4-S3 ¹ / ₂	-8		11:00am																
B12-B-C3-S ¹ / ₂	-9		11:42am																
B12-B-B4-S ¹ / ₂	-10		10:39am																

Relinquished By <u>Brian Bayer</u>	Company <u>BEC</u>	Date <u>2/7/11</u>	Time <u>4:06pm</u>	Received By <u>[Signature]</u>	Company <u>ABC</u>	Date <u>2/7/11</u>	Time <u>4:06pm</u>	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SD=Solid Waste, SL=Sludge, SS=Soil/Sediment, AR=Air, PP=Pure Product, Preservative Code: IC=Ice, HC=HCl, HN=HNO₃, SH=NaOH, ST=Na₂S₂O₃, HS=H₂SO₄, * Sample Container Types: T=Tedlar Air Bag, G=Glass Container, ST= Steel Tube, B= Brass Tube, P=Plastic Bottle, V=VOA Vial, E= EnCore

ABC Environmental Laboratories

Mr. Brett Bowyer
Bowyer Environmental
16458 Balsa Chica St., #422
HB, CA 92649

1/12/2011

Project: Sunkist
Project Site: Sunkist
Sample Date: 12/30/2010
Lab Job No.: B10L056A

Dear Mr. Bowyer,

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 12/30/10 and analyzed by the following EPA methods:

EPA 8082(PCBs)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909)923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director



This cover letter is an integral part of this analytical report.

ABC Environmental Laboratories

Client:	Bowyer Environmental	Lab Job No.:	B10L056A
Project:	Sunkist	Date Sampled:	12/30/2010
Project Site:	Sunkist, Ontario	Date Received:	12/30/2010
Matrix:	Concrete	Date Extracted:	1/11/2011
Extraction Method:	EPA 3550B	Date Analyzed:	1/11/2011
Batch No.:	0111-PCB-S	Date Reported:	1/12/2011

EPA 8082 (PCBs)

Reporting Unit: µg/kg (ppb)

DILUTION FACTOR		1	1	1	1	1
LAB SAMPLE I.D.		B10L056-1	B10L056-2	B10L056-3	B10L056-4	B10L056-5
CLIENT SAMPLE I.D.		AGB-12	FLI-B12	BSW-B12	LD-L1	B-15
COMPOUND	RL					
PCB-1016	25	ND	ND	ND	ND	ND
PCB-1221	50	ND	ND	ND	ND	ND
PCB-1232	25	ND	ND	ND	ND	ND
PCB-1242	25	ND	ND	ND	ND	ND
PCB-1248	25	ND	ND	ND	ND	ND
PCB-1254	25	ND	ND	26.1	28.2	ND
PCB-1260	25	ND	ND	ND	ND	ND

ND: Not Detected (Below RL x Dilution Factor).

ABC Environmental Laboratories

EPA 8082 (PCBs) Batch QA/QC Report

Client: Bowyer Environmental

Lab Job No.: B10L056A

Project: Sunkist

Lab Sample ID: LCS

Matrix: Soil

Date Analyzed: 1/11/2011

Batch No.: 0111-PCB-S

Date Reported: 1/12/2011

MB/LCS/LCSD Report

Unit: ug/kg

Analyte	Method	Spike	LCS	LCSD	LCS	LCSD	%RPD	%RPD	%Rec.
	Blank	Conc.			%Rec.	%Rec.		Accept	Accept
								Limit	Limit
PCB-1254	ND	500	441	443	88	89	0	≤30	75-130

ND: Not Detected (Below RL).



CHAIN OF CUSTODY

Client Name BEC		Sample Receipt Conditions		Analyses Requested												Turn Around Time Requested																
Address 17011 Beach Blvd, HB, CA		<input type="checkbox"/> Chilled <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Sample Seal		<table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr> <td>EPA8260B (VOCs & Oxygenates)</td> <td>EPA8260B(BTEX & Oxygenates)</td> <td>EPA8021B (BTEX & MTBE)</td> <td>EPA8015M / 8015B (Gasoline)</td> <td>EPA8015M / 8015B (Diesel)</td> <td>EPA8081A (Organochlorine Pesticides)</td> <td>EPA 8082 (PCBs)</td> <td>EPA418.1 (TRPH)</td> <td>EPA8015M (Carbon Chain)</td> <td>EPA 7000s (Metals)</td> <td>CAM 17 Metals</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>												EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals					<input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal	
EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)													EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals										
Report Attention	Phone # 877-232-4620 Fax: #	Sampled By Willy P.																														
Project No./ Name	Project Site Sunkist																															
Client Sample ID	Lab Sample ID	Sample Collection Date	Sample Collection Time	Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks														
AGB-12	B10L056-1	12/30/10	8:08	Soil	NA	1-19 liter Bucket							X						Rush													
FL1-B12	-2	12/30/10	9:00	Soil		1-19 liter Bucket							X						↓													
BSW-B12	-3	12/30/10	10:00	Soil									X																			
LD-L1	-4	12/30/10	11:15	Soil									X																			
B-15	-5	12/30/10	12:00	Soil									X																			
LW-1	-6	12/30/10	12:36	Aqueous		1L-G							X						Normal													

Relinquished By Willy Parrish	Company BEC	Date 12/30/10	Time 1:10 PM	Received By J. Zam	Company ABC Labs	Date 12/30/10	Time 1:10 PM	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	

Matrix Code:	DW=Drinking Water GW=Ground Water WW=Waste Water SD=Solid Waste	SL=Sludge SS=Soil/Sediment AR=Air PP=Pure Product	Preservative Code	IC=Ice HC=HCl HN=HNO ₃	SH=NaOH ST=Na ₂ S ₂ O ₃ HS=H ₂ SO ₄	* Sample Container Types: T=Tedlar Air Bag G=Glass Container ST= Steel Tube	B= Brass Tube P=Plastic Bottle V=VOA Vial	E= EnCore
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Appendix D

Sampling and Analysis Plan

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1.0

INTRODUCTION

On behalf of the Sunkist Growers Inc. (Sunkist), Bowyer Environmental Consulting, Inc. (BEC) has prepared this Sampling and Analysis Plan (SAP) which presents protocols/methodologies associated with the collection, handling and analysis of soil and other material samples during the site assessment and remediation activities conducted at the former Sunkist Citrus Processing Plant (Site). The USEPA sets forth the PCB-related cleanup and disposal requirements for self-implementing onsite cleanup and disposal of PCB remediation waste that must be met under 40 Code of Federal Regulations (CFR) 761.61 to satisfy the Toxic Substances Control Act (TSCA). The proposed remedial activity for PCBs is removal of soil containing PCBs at concentrations above the risk based criteria defined in the Human Health Risk Assessment (BEC, April, 2011) for this Site. Cleanup actions will be performed in accordance with 40 CFR 761.61(c).

1.1

SAMPLING AND ANALYSIS PLAN OBJECTIVES

The nature and extent of known chemicals observed at the Site are summarized in the Remedial Action Plan (RAP). The RAP also presents the approach and rationale behind sampling, analyzing, and evaluating the end-use of concrete (and other materials) and soil during the environmental activities associated with the decommissioning and closure of the Site. This SAP focuses on the methodologies and protocols involved in collecting and analyzing representative soil/material samples. As such, the primary objectives of the SAP are to:

- Detail the field procedures for the collection of in situ, stockpile and confirmation samples;
- Describe sample handling procedures;
- Define field quality assurance/quality control procedures; and
- Describe record keeping procedures associated with sampling efforts.

A further description of the precision and accuracy associated with the analytical procedures to be conducted as part of this program are presented in the Site Quality Assurance Project Plan (BEC, May, 2011).

DOCUMENT ORGANIZATION

This SMP is organized as follows:

- Section 1 – Introduction and Objectives;
- Section 2 - Soil and Material Sampling, Handling, and Record Keeping;
- Section 3 - Quality Assurance Objectives;
- Section 5 - Instrument Calibration Procedures;
- Section 6 - Data Reduction, Validation, and Reporting;
- Section 7 - Preventive Maintenance;
- Section 8 - Data Assessment Procedures;
- Section 9 – Corrective Action; and
- Section 10 - Quality Assurance Reports.

The scope of the SAP includes all sampling activities performed in association with the environmental investigation and remediation activities associated with the Site. It applies to all work done in association with this project, whether performed at the site and vicinity, or in any office or laboratory.

2.0

SOIL AND MATERIAL SAMPLING, HANDLING, AND RECORD KEEPING

This section discusses the procedures to be implemented to collect and handle soil and other material samples during the site decommissioning and environmental closure. The types of samples to be collected include:

- Porous material sampling of structures to be left in place following decommissioning activities as described in the RAP;
- In situ excavation confirmation samples collected during the implementation of remedial activities described in the RAP;
- Samples of stockpiled concrete to evaluate the material for off-Site disposal.

The rationale behind the decision to collect samples, and the number of samples to be collected are summarized in the RAP.

Sample collection, handling and record keeping procedures prior to and after laboratory submittal will meet method-prescribed requirements to ensure sample integrity is not compromised. Field and laboratory sample collection/handling procedures that will be followed are described below.

2.1

SAMPLE COLLECTION

In situ samples of concrete will be collected per the protocol described in *Standard Operating Procedures for Sampling Porous Surfaces for Polychlorinated Biphenyls* (EPA, Region I, October 21, 2008). This procedure involves the use of an impact hammer with a 1.0 inch carbide bit to generate a uniform, finely-ground, powder from within the upper 0.5 inches of the material surface. The sampled material will be placed in laboratory provided, pre-cleaned, two-ounce glass jars with Teflon lids. In general, one sample will be collected per every 100 foot area of suspected historical PCB use. Planned sampling locations are presented in the RAP. Any deviations to these standards will be documented in the Completion Report prepared following the implementation of the activities described in the RAP.

In situ soil samples will be collected 0 to 6 inches below the surface. These samples will be collected by driving a 6-inch length brass tubes, into undisturbed soil. The brass tube will be retrieved, capped, labeled and stored for transport to the analytical laboratory.

Samples of crushed concrete will be collected from the stockpiles per 40 CFR 761, Subpart R (as required to characterize remediation waste per 40 CRF 761.61). This procedure involves the initial collection of eight, 19-liter subsamples for each stockpile. Subsample locations are derived by specific random selection procedures defined with 40 CFR 761, Subpart R. The eight subsamples are then composited to produce a single 19-liter sample. The composited sample is delivered to the laboratory, and the material is further randomly subsampled and processed as defined in CFR 761, Subpart R so that a single 100 gram sample is generated for analysis. A sample extract will be collected using both the EPA Toxic Characterization Leaching Potential (TCLP) and California Waste Extraction Test (WET) methods. These extracts will be analyzed for PCBs by EPA Method 8082.

2.2 *FIELD HANDLING PROCEDURES*

2.1.1 *Sample Collection Procedures*

Soil/material samples that are submitted for analyses will be handled using the following procedures. Field-composited samples will be placed in clean, glass sample containers and sealed with a Teflon®-lined lid supplied by the laboratory. Samples submitted for discrete analyses will be submitted in clean, glass sample containers or sample collection sleeves. The ends of each sleeve will be covered with Teflon sheeting and sealed with a plastic end cap. Soil samples analyzed for VOCs will be preserved in the field using the laboratory prepared VOA vials with preservatives and the EasyDraw Syringe® & PowerStop Handle® Sampling System.

2.1.2 *Quality Assurance/Quality Control Samples*

The following samples and/or analyses will be performed during the field program to provide documentation as to the precision and accuracy of the field sampling and analytical testing program.

Field Duplicates - Field duplicate samples will be collected at a minimum frequency of 1 for every 20 samples collected. Duplicate samples will be independently collected as close as possible to the original sample from the same source under identical sampling conditions. The field duplicate samples will be used to document sampling and analytical precision.

Equipment Rinse Blanks - Equipment rinse blanks will be collected to evaluate field sampling and decontamination procedures by pouring water (for soil and stockpile sampling or hexane (for porous material sampling) over the decontaminated equipment, following sample

collection. In general, equipment blanks will be collected at a rate of 1 in 20 (minimum of one per day).

Matrix Spike and Matrix Spike Duplicate (MS/MSD) – In general, for every 20 field samples, one location will have sample volume collected in triplicate and will be designated on the chain-of-custody form as an MS/MSD.

Surrogate Analysis – ABC will analyze surrogates with each of the analyses performed. For the 8082 analysis, the laboratory utilizes 2,4,5,6-tetrachloro-m-xylene and decachlorobiphenyl as surrogates. The recoveries of these compounds will be reported on the laboratory reports.

2.2.3 *Sample Labels*

A waterproof sample label will be completed and affixed to each sample container immediately upon collection. Sample label information will be completed using permanent, waterproof, dark-colored ink and will include the following information:

- Sample identification;
- Time and date of collection;
- Project number;
- Parameters to be analyzed; and
- Sampler's initials.

2.2.4 *Sample Identification*

A standardized numbering system will be used to identify all samples collected during this program. The numbering system provides a tracking procedure to ensure accurate data retrieval of all samples taken. The Project Manager, who will be responsible for enforcing the use of the standardized numbering system during all sampling activities, and will maintain a listing of the sample identification numbers.

2.2.5 *Field Logs*

All data collection activities performed at a site will be documented on *Daily Field Logs* and/or on *Chain-of-Custody Forms*. Entries will be as detailed and as descriptive as possible so that a particular situation can be recalled without reliance solely on the sampler's memory. All field log entries will be dated and signed by the person making them. The completed field logs will become a part of permanent project files. A copy of a blank *Daily Field Log* is provided as Figure D-1.

2.2.6 *Corrections to Documentation*

If an incorrect entry is made in any type of data document, the incorrect data will be lined out with a single line, the correct information entered, and the correction initialed and dated by the person making the correction.

2.2.7 *Sample Packaging and Storage*

Soil samples for inorganic analysis will be placed in individual, resealable plastic bags and stored in an ice chest. Soil samples for organic analysis will be placed in individual, resealable plastic bags and stored in a chilled ice chest. A sufficient amount of ice will be used to ensure samples are maintained at a temperature of 2 to 6 degrees Celsius ($^{\circ}\text{C}$). Ice used to chill coolers and samples will be placed in a plastic bag to reduce the potential for direct sample contact with melted water.

2.3 *EQUIPMENT DECONTAMINATION PROCEDURES*

Decontamination of sampling equipment will be required prior to collecting samples from each location. Equipment used for sampling will be decontaminated, as follows:

- Potable water rinse;
- Alconox detergent wash;
- Distilled/deionized water rinse;
- Dried; and
- Wrapped in aluminum foil for storage.

Disposable equipment or materials used for sampling will be packaged properly and disposed in accordance with USEPA guidelines. Wash waters associated with decontamination will be collected and properly disposed of in accordance with USEPA guidelines.

2.4 *SAMPLE CUSTODY*

Proper custody procedures are necessary to ensure tampering has not compromised sample integrity and to ensure each of the required analyses is performed. These procedures are described as follows.

2.4.1 *Chain-of-Custody Form*

Proper chain-of-custody (COC) procedures will be followed to ensure that proper custody has been maintained and that the sample has not been tampered with in any way. Appropriately completed COC forms will clearly reflect the movement of the sample through the sample handling and transport, and that proper custody has been maintained. A sample is judged to be in proper custody when at least one of the following criteria has been met:

- The sample is in one's actual physical possession;
- The sample is in one's clear field of view after being in one's physical possession; or
- The sample is in one's physical possession and is then locked up in a secure container so that no one can tamper with it.

These COC forms will maintain a record of sample collection, transfer between sample custodians, shipment, and receipt by the laboratory. A COC form will be filled out for all samples collected for laboratory analysis. This subsection describes the sample custody policies and procedures that will be followed during the sample handling process.

2.4.2 *Transfer of Custody and Shipment*

Each time the samples are transferred, the signatures of the person relinquishing and receiving the samples, as well as the date and time of transfer, will be documented. Prior to the shipment of samples, the COC form will be signed and dated by a member of the field team who has verified that those samples indicated on the COC form are indeed being shipped.

Samples will be shipped by commercial delivery service for overnight delivery or hand delivered to the laboratory by field personnel. Upon receipt of the samples at the laboratory, the sample custodian will complete the transfer by dating and signing the COC form. An acceptable alternative is to enter the air bill number and shipping data into the appropriate signature/date block. A copy of the air bill is to be kept with the field copy of the COC form to reflect specific shipping information.

2.4.3 *Laboratory Receipt Procedures*

The following describes laboratory chain-of-custody and sample receipt procedures. The sequence of steps that will be undertaken after receipt of the sample by the laboratory is as follows:

- Upon receipt, the sample custodian will measure the temperature of the sample cooler and record the temperature on the sample login form.
- Sample containers will be inspected for the presence of leakage or breakage. Damaged or leaking samples will be noted on the COC form. The sample custodian will sign the COC form with the date and time of receipt, thus assuming custody of the samples.
- The information on the COC form will be compared with the information on the sample labels to verify exact sample identity. Any inconsistencies will be immediately resolved with the Principal-In-Charge before sample analysis proceeds.
- In the event of non-compliant cooler temperatures, damaged samples, or cooler contents that do not agree with COC forms, the sample custodian will immediately notify the Laboratory QA Officer. The Laboratory QA Officer is required to notify the Principal-In-Charge of any problems encountered during sample login within 24 hours of sample receipt.
- Samples will be moved to a secure, sample storage refrigerator for storage prior to analysis. The storage location will be recorded on the COC form and/or in the appropriate section of the laboratory login form to ensure continuity of sample tracking.
- The Laboratory QA Officer will retain the original carbon copies of the COC form prior to submitting the final data report. Upon submission of the final data report, one carbon copy of the original COC form will be included in this report. The remaining carbon copy of the original COC will be sent to the laboratory's locked master file cabinets or archives.
- The sample custodian will alert the appropriate section managers and analysts of any analyses requiring immediate attention due to short holding times.

Analytical laboratory personnel will check out samples for analysis from the sample custodian, and the formal transfer action, including date and signatures, will be recorded on the internal COC. The analyst will then be the custodian of the sample during analysis.

2.5

LABORATORY HANDLING PROCEDURES

Samples requiring refrigeration will be maintained in a secure storage refrigerator that will be kept at a temperature ranging from 2 to 6°C. Sample extracts requiring refrigeration will be maintained in a secure storage refrigerator that will be kept at a temperature ranging from -10 to -20°C. Samples that require analysis for VOCs will be stored separately in a secure refrigerator.

To ensure samples or extracts are not tampered with, the laboratory is required to maintain a full-time security system. The laboratory shall maintain a record of all after-hours employee visits. This record may be used to track potential sample integrity problems at the laboratory.

The analytical results are the basis for assessing the extent of excavations and to characterize excavated soil and other materials. The procedures used to measure chemical concentrations in samples must follow recognized methods and procedures to ensure results are defensible and as accurate and reflective of sample concentrations as possible.

Selected samples collected for this investigation will be analyzed in accordance with analytical procedures that conform to USEPA guidelines published in *Test Methods for Evaluating Solid Waste Physical/Chemical Methods, SW-846*, Third Edition (1986, update package, December 1997). Selected samples will be analyzed for volatile organic compounds (VOC), total petroleum hydrocarbons (TPH), polynuclear aromatics (PNAs), polychlorinated biphenyls (PCBs), pesticides, and metals by the analytical methods listed in Table D-1.

Quality assurance objectives (QAOs) are essential to ensuring that data collected are sufficient to meet the internal project goals. Quality objectives are broken into two categories, Data Quality Objectives (DQOs) and Quality Assurance Objectives (QAOs). Both objectives are discussed in this section.

DQOs are designed to support the overall project objective. DQOs are qualitative and quantitative statements developed by data users to specify the quality and quantity of data needed from a particular data collection activity to support specific decisions or regulatory actions. Physical characteristics measured and/or observed in the field and analytical results from samples collected at the site will be evaluated during the characterization process.

The seven-step process for developing DQOs, as described in *Data Quality Objectives Process for Superfund* (USEPA, 1993), are as follows:

- **Step 1: State the Problem.** Summarize the contamination problem that will require new environmental data, and identify the resources available to resolve the problem.
- **Step 2: Identify the Decision.** Identify the decision that requires new environmental data to address the contamination problem.
- **Step 3: Identify Inputs to the Decision.** Identify the information needed to support the decision, and specify which inputs require new environmental measurements.
- **Step 4: Define the Study Boundaries.** Specify the spatial and temporal aspects of the environmental media that the data must represent to support the decision.
- **Step 5: Develop a Decision Rule.** Develop a logical "if...then..." statement that defines the conditions that would cause the decision maker to choose alternative actions.
- **Step 6: Specify the Limits on Decision Errors.** Specify the decision maker's acceptable limit on decision errors, which are used to establish performance goals for limiting uncertainty in the data.
- **Step 7: Optimize the Design for Obtaining Data.** Identify the most resource-effective sampling and analysis design for generating data that are expected to satisfy the DQOs.

Steps 1 through 7 of DQO development are addressed in the overall RAP and have been used in developing the data collection strategy.

5.0 *INSTRUMENT CALIBRATION PROCEDURES*

The analytical results are the basis for assessing excavated soil and waste characterization. Calibration is an integral part of ensuring results are quantitated correctly. Instruments that are not calibrated to manufacturers' or method specifications are likely to produce unreliable results. Proper procedures must be followed and sufficient documentation maintained to ensure calibrations are performed correctly and sample quantitations accurately reflect sample concentrations. This section summarizes calibration procedures for field and laboratory instrumentation.

5.1 *FIELD INSTRUMENTATION*

A PID/FID will be used in the field during the project. It will be calibrated according to manufacturers' specifications on a regular basis. Typically, calibration of the meter will be checked at the start of each day using a standard calibration gas. If calibration of the PID/FID is required, the instrument will be shipped back to the manufacturer for calibrations as suggested by the manufacturer. Results of the daily calibration check will be recorded on the daily field log.

5.2 *LABORATORY INSTRUMENTATION*

Before any analytical instrument is used, the instrument response to known reference materials must be determined. The manner in which various instruments are calibrated is dependent on the particular type of instrument and its intended use. All sample measurements will be made within the calibrated range of the instrument and will follow method protocols for calibration. Method protocols include:

- *Methods for Chemical Analysis of Water and Wastes* (USEPA, 1983);
- *Test Methods for Evaluating Solid Waste Physical/Chemical Methods*, SW-846 Update I (07/92) and Update II (09/94) (USEPA, 1986a); and
- Any other appropriate methodologies.

A further description of laboratory calibration procedures is provided in the QAPP.

6.0 *DATA REDUCTION, VALIDATION, AND REPORTING*

The field and technical (non-laboratory) data that will be collected can generally be characterized as either objective or subjective data. Objective data include all direct measurements, such as field screening. Subjective data include activity descriptions and observations.

6.1 *FIELD AND TECHNICAL DATA REDUCTION*

As described in Section 2.0, all field data will be recorded by Daily Field Logs. The Project Manager may choose to appoint a team member to photocopy all field generated in a given field day. Copies will be given to the Project Manager who will maintain a field log file. At the direction of the Project Manager, copies of all field logs, notebook pages, and standard forms will be returned to the field office for entry into project files.

After checking the validity of data in field notes and on standard forms, the Project Manager will be responsible for entering pertinent data into data files. Where appropriate, the data files will be set up for direct input into the project database. Subjective data will be filed as hard copies for later review by the Project Manager and for incorporation into technical reports, as appropriate.

6.2 *FIELD AND TECHNICAL DATA VALIDATION*

Validation of objective field and technical data will be performed at two different levels. On the first level, data will be validated at the time of collection by following standard procedures and QC checks. At the second level, data will be validated by the Project Manager, who will review the data to ensure that the correct codes and units have been included.

After data reduction into tabular format or the project database, the Project/Site Manager will review data sets for anomalous values. Any inconsistencies or anomalies discovered will be resolved immediately, if possible, by seeking clarification from field personnel responsible for collecting the data.

Subjective field and technical data will be validated by the Project Manager, who will review field reports for reasonableness and completeness. In addition, random checks of sampling and field

conditions will be made by the Project Manager, who will check recorded data at that time to confirm the recorded observations. Whenever possible, peer review will also be incorporated into the data validation process, particularly for subjective data, to maximize the consistency among field personnel.

7.0 *PREVENTIVE MAINTENANCE*

Proper preventive maintenance of field and laboratory equipment is an essential element in a successful field investigation. Implementation of standard preventive maintenance routines serves to eliminate surprise equipment failures and subsequent stand-by time.

7.1 *FIELD EQUIPMENT*

Field equipment will be properly calibrated, charged, and in good working condition before the beginning of each workday. Manufacturers' specifications define the required equipment checks for each type of field equipment used. Non-operational field equipment will be removed from service and replaced immediately. Significant repairs to field equipment will not be performed in the field.

All field instruments will be properly protected against inclement weather during the remedial action. Each instrument is specially designed to maintain its operating integrity during variable temperature ranges that are representative of ranges that will be encountered during working conditions. At the end of each workday, all field equipment will be taken out of the field and placed in a cool dry room for overnight storage.

All subcontractor equipment (e.g., excavators) will arrive at the site in proper working condition each day. All lubricating and hydraulic motor oils will be checked by the subcontractor before the start of each workday to ensure all fluid reservoirs are full and there are no leaks. If a leak is observed, the equipment will be removed from service for repair or replacement.

7.2 *LABORATORY EQUIPMENT*

The ability to generate valid analytical data requires that all analytical instrumentation be properly maintained. A detailed description of the laboratory equipment maintenance procedures is provided in the QAPP.

Data assessment or evaluation is performed to ensure that data are accurate and of acceptable quality prior to using data for decision-making purposes. During this assessment, data are reviewed and validated for compliance with pre-established project goals and limits. Data that do not meet these goals or limits may require qualification to identify results that should be used with caution or should not be used for decision-making purposes.

Data assessment responsibilities are defined as follows:

- Analytical data will be reviewed and/or validated by a qualified designee to ensure QC goals have been achieved and data quality is acceptable;
- Field data will be assessed by the Task Manager or qualified designee; and
- Data adequacy will be assessed by the Principal-In-Charge or qualified designee to ensure adequate data are available to meet project DQOs.

9.0 *CORRECTIVE ACTIONS*

The ultimate responsibility for maintaining quality throughout the project rests with the Principal-In Charge. Responsibility for the routine operation of the quality assurance program, however, falls upon the entire project team, including the construction contractor and the laboratory personnel.

Items, events, or procedures that will negatively affect the quality of the data or project results must be reported in a timely manner to the appropriate supervisory staff. When necessary, corrective measures must be taken as soon as possible, or work may need to be stopped until corrections are implemented.

9.1 *NONCONFORMANCE*

A nonconformance is defined as a deficiency or improper procedure that renders the quality of an item unacceptable or indeterminate. A nonconforming item may be reported to the Principal-In Charge by any member of the project staff. Audits may also identify nonconformances.

Work that has been reported as nonconforming may be temporarily stopped while the nonconformance is being investigated. The quality of an item may be deemed acceptable following the investigation. The Principal-In-Charge, Project Manager, Task Leader has the authority to stop the work while the nonconformance is being investigated.

9.2 *CORRECTIVE ACTION*

Any and all nonconformances with the established QC procedures will be expeditiously identified and controlled. No additional work that is dependent on the nonconforming activity will be performed until the identified nonconformance is corrected.

9.2.1 *Field Corrective Action*

Corrective actions will be defined by the field personnel, Task Manager, Project Manager or the Principal-In-Charge. Corrective actions must be approved verbally by the Principal-In-Charge prior to implementation.

9.2.2

Laboratory Corrective Action

The laboratory has an established corrective action policy that can be initiated at several operational levels; however, they always involve QA personnel. During or following the analysis of project samples, the laboratory QA Officer should provide the Principal-In-Charge with a corrective action memo documenting any nonconformance and resolution that impacted any samples. This memo will be included in the project files.

Individual Task Leaders and the Project Manager will report to the Principal-In Charge on a regular basis regarding progress of the fieldwork and QC issues associated with the field activities. All reports will be verbal unless a need to document corrective action in writing is identified.

In addition, meetings to discuss the progress of the project will be held as requested. At these meetings, concerns that arise during the course of the work that may require changes to the scope of work or deviations from the established protocols specified in the approved SOPs will be discussed and resolved. Proposed adjustments will be submitted to the appropriate regulatory agency for approval prior to implementation.

The laboratory maintains detailed procedures for laboratory record keeping and reporting to support the validity of all analytical work. The laboratory QA Officer will provide the Principal-In-Charge with reports of state and/or federal audits or internal audits, corrective actions, and other QA activities.

Verbal reports will be provided following the receipt of individual data packages. The final report will be based on the data reports and other information reported verbally by the contract laboratory. If any QA problems are encountered, the laboratory QA Officer will issue a written report to the Principal-In-Charge.

Figures

Tables

**Table D-1 Sample Containers, Preservation, and Holding Times
Westside Medical - Olympic Parcel**

Parameter	Matrix	Analytical Method	Container	Preservation	Maximum Holding Time Extraction/ Analysis
VOCs	Soil	USEPA 8260	Preserved Vials	4°C	48 hours to analysis
TPH	Soil	USEPA 8015	Preserved Vials	4°C	48 hours to analysis
PNAs	Soil	USEPA 8270 SIM	Brass Sleeve	4°C	14 days/40 days from extraction to analysis
PCBs	Soil	USEPA 8082	Glass Jar- 100 g	none	14 days/40 days from extraction to analysis
Pesticides	Soil	USEPA 8081	Glass Jar- 100 g	none	14 days/40 days from extraction to analysis
Metals	Soil	USEPA 6010/7000	Glass Jar- 100 g	none	6 months to analysis, Hg 28 days to analysis

Key:

°C = degrees Celsius

CA LUFT = California Leaking Underground Storage Tank Field Manual

Hg = Mercury

M = Modified

ml = Milliliter

Org. Pb = Organic lead

PCBs = Polychlorinated biphenyls

SVOCs = Semivolatile organic compounds

USEPA = United States Environmental Protection Agency

VOCs = Volatile organic compounds

Appendix E

Quality Assurance Project Plan

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On behalf of the Sunkist Growers Inc. (Sunkist), Bowyer Environmental Consulting, Inc. (BEC) has prepared this Quality Assurance Project Plan (QAPP) to describe recommended procedures to be taken during implementation of the field work at the Former Sunkist Citrus Processing Plant (the Site).

This site-specific QAPP presents the overall policies, data quality objectives (DQOs), specific quality assurance (QA) and quality control (QC) requirements, procedures, responsibilities, chain-of-custody procedures, laboratory analyses, and documentation that will be employed during the field work. The purpose of this QAPP is to recommend standard procedures to ensure that the integrity, accuracy, precision, completeness, and representativeness of the samples are maintained to support the objectives of the field work.

The scope of the QA program includes all activities and work performed in relationship to environmental sampling and remediation activities conducted at the Site. It applies to all work, whether performed at the Site and vicinity or in any office or laboratory.

2.0

PROJECT ORGANIZATION AND RESPONSIBILITIES

Specific roles and responsibilities for key project personnel must be defined prior to the initiation of the project to ensure project goals are achieved. This section describes the specific roles and responsibilities necessary for the project. The organization of key personnel currently assigned to the roles listed in this section is presented on Figure E-1.

The Project Manager has the overall responsibility to Sunkist for project-related activities. The Principal-in-Charge will fulfill the requirements for project oversight by a registered professional.

2.1

RESPONSIBILITIES OF KEY PERSONNEL

The duties and responsibilities of key roles concerned with the field work at the Site are briefly described below:

2.1.1

Principal-in-Charge

The Principal-in-Charge has overall responsibility for the planning, scheduling, cost control, and implementation of the project. The Principal-in-Charge will be responsible for all decisions regarding actions taken to respond to field data. In addition the Principal-in-Charge is responsible for coordination with the regulatory agencies and project team. To accomplish this, the Principal-in-Charge will interface with the Regulatory agencies, and the rest of the project team to fully understand the cost, time, and logistical constraints for the project.

2.1.2

Project Manager

The Project Manager has the day-to-day responsibility for the planning, scheduling, implementation of the project, and the management of personnel and equipment performing Site operations. The Project Manager monitors all project personnel in planning, coordinating, and controlling all project work tasks. The Project Manager will also be responsible for ensuring that protocols for decontamination and sampling are met.

2.1.3

Project Health and Safety Consultant

The Project Health and Safety Consultant is responsible for advising the Site Safety Officer (SSO) on matters relating to health and safety on this

project; recommending appropriate personal protective equipment (PPE) and air monitoring instrumentation to protect personnel from potential hazards present on site; maintaining contact with the SSO to regularly evaluate project conditions; and performing field audits, when necessary, to monitor compliance with the HASP and its effectiveness.

2.1.4 *Laboratory Quality Assurance Officer*

ABC Environmental Laboratories (ABC) will be used for all chemical analyses. The Laboratory QA Officer (designated by the laboratory) and client services representative will maintain contact with the Principal-In-Charge to ensure that DQOs are achieved. The laboratory and its staff have the responsibility for processing all samples submitted according to the specific protocols for sample custody, holding times, analysis, QA/QC review of the data, reduction and reporting, and associated internal QA/QC procedures.

2.1.6 *Task Leader*

The Project Manager will designate a Task Leader for all major tasks. This Task Leader is responsible to the Project Manager for planning, scheduling, cost control, and completion of assigned project tasks. The Task Leader is responsible for implementing the QA program related to assigned tasks. Each member of the project team is responsible to the Task Leader or Project Manager for completion of assigned project activities. Members of the project staff are responsible for understanding and implementing the QA program as it applies to their project activities.

2.1.6.1 *Sampling Technician*

The sampling technician will be responsible for ensuring that the required volume of each sample matrix is collected to ensure that complete laboratory analysis objectives are met. The sampling technician is also responsible for ensuring that all QA/QC samples are collected in accordance with the SAP and this QAPP.

2.1.6.2 *Project Staff*

Members of the project staff are responsible for understanding and implementing the QA program as it applies to their project activities.

2.1.6.3 *Site Safety Officer*

The Site Safety Officer is responsible for ensuring personnel safety during Site activities including determination of personal protection levels; for example, in response to Site monitoring readings by field personnel.

Quality assurance objectives (QAOs) are essential to ensuring that data collected are sufficient to meet the internal project goals. Quality objectives are broken into two categories, DQOs and QAOs. Both objectives are discussed in this section.

DATA QUALITY OBJECTIVE PROCESS

DQOs are designed to support the overall project objective. DQOs are qualitative and quantitative statements developed by data users to specify the quality and quantity of data needed from a particular data collection activity to support specific decisions or regulatory actions. Physical characteristics measured and/or observed in the field and analytical results from samples collected at the Site will be evaluated during the characterization process.

The seven-step process for developing DQOs, as described in *Data Quality Objectives Process for Superfund* (USEPA, 1993), are as follows:

- **Step 1: State the Problem.** Summarize the contamination problem that will require new environmental data, and identify the resources available to resolve the problem.
- **Step 2: Identify the Decision.** Identify the decision that requires new environmental data to address the contamination problem.
- **Step 3: Identify Inputs to the Decision.** Identify the information needed to support the decision, and specify which inputs require new environmental measurements.
- **Step 4: Define the Study Boundaries.** Specify the spatial and temporal aspects of the environmental media that the data must represent to support the decision.
- **Step 5: Develop a Decision Rule.** Develop a logical "if...then..." statement that defines the conditions that would cause the decision maker to choose alternative actions.
- **Step 6: Specify the Limits on Decision Errors.** Specify the decision maker's acceptable limit on decision errors, which are used to establish performance goals for limiting uncertainty in the data.
- **Step 7: Optimize the Design for Obtaining Data.** Identify the most resource-effective sampling and analysis design for generating data that are expected to satisfy the DQOs.

The components of Steps 1 through 5 of DQO development are addressed in the Sampling and Analysis Plan (SAP) and have been used in developing the data collection strategy. The components of Steps 6 and 7 of DQO development are briefly summarized below.

Limits on decision errors have been defined for this project as data that meet or exceed the defined QAOs. The project has been designed to use sampling and analysis techniques that will provide sufficient information to meet project goals. Sample collection techniques have been identified in the SAP. Analytical techniques have been defined in Section 6.0 of this document.

3.1.1 *Regulatory Parameters*

Analysis of soil samples collected according to the SAP will be performed in accordance with analytical procedures that conform to USEPA guidelines published in *Test Methods for Evaluating Solid Waste Physical/Chemical Methods, SW-846, Third Edition (1986, update package, December 1997)*.

Tables E-1 through E-5 summarize the detection levels and/or quantitation limits for volatile organic compounds (VOC), total petroleum hydrocarbons (TPH), semi-volatile organic compounds, polychlorinated biphenyls (PCBs), pesticides, and metals for soil samples.

3.1.2 *Quality Control During Field Sampling*

Field duplicate samples will be submitted to the analytical laboratory to provide the means to assess the data quality resulting from the field sampling program. These quality control samples are described in the SAP and Section 9.1 of this document.

3.1.3 *Quality Assurance Objectives*

Data are potentially subject to sampling and data reduction errors. QAOs are established to control the sources of errors and quantify the errors whenever possible. QC procedures are designed to both increase sample data quality and help interpret discrepancies in results. QAOs are both quantifiable and qualifiable data that are expressed in terms of accuracy, precision, completeness, comparability, and representativeness. Definitions and descriptions of these terms are provided below.

3.1.3.1 Accuracy

Accuracy is a measure of the bias in a system. Accuracy is the degree of agreement of a measurement (or an average of measurements of the same thing) with the accepted reference or true value. Accuracy is monitored through the use of both matrix and blank spike sample analyses. Matrix spike samples measure biases in sample matrices and laboratory accuracy. Blank spike sample analyses, commonly referred to as laboratory control samples (LCS), measure laboratory accuracy without the bias of a matrix.

Accuracy goals depend on the sample media and the type of analysis. The goal of laboratory accuracy is to demonstrate the laboratory's ability to successfully perform analyses. Accuracy is calculated as follows:

$$\text{Percent Recovery} = \left(\frac{\text{Spike Result} - \text{Unspike Result}}{\text{Spike Added}} \right) \times 100$$

Accuracy goals for each method that may be measured for the Remedial Investigation/Feasibility Study (RI/FS) are listed in Tables E-1 through E-4.

Accuracy of the laboratory and field measuring systems will be assessed on a regular basis throughout the project. If this assessment determines that accuracy is not achieved, corrective action, as described in Section 13.0, will be undertaken.

3.1.3.2 Precision

Precision is a measure of mutual agreement among individual measurements of the same property, usually under prescribed similar conditions. The measurement of precision will be monitored through the use of duplicate samples taken at regular specified intervals.

Precision values depend on the sample media. The objective of laboratory precision is to equal or exceed the precision demonstrated in the analytical method specified for this project. Relative Percent Difference (RPD) is used as the measure of precision between matrix spike duplicates. The formula utilized to calculate RPD is as follows:

$$RPD = \left(\frac{SPL1 - SPL2}{\text{Mean of SPL1 and SPL2}} \right) \times 100$$

where: SPL1 = First sample analysis; and
SPL2 = Duplicate sample analysis.

Precision goals for each method that will be utilized for the RI/FS are listed in Tables E-1 through E-4.

Precision of the laboratory and field measuring systems will be assessed on the same schedule as described above for accuracy. The frequency and methods are defined in the SAP. If this assessment determines that precision DQOs are not achieved, corrective action, as described in Section 13.0, will be undertaken.

3.1.3.3 *Completeness*

Completeness is a measure of the amount of valid data obtained from a measurement system compared to the amount that could be obtained under optimum conditions. Amounts of data to be collected are defined in the SAP. The completeness objective for the project is 95 percent.

Overall completeness is composed of field completeness, office completeness, and laboratory completeness. Field completeness is based on the number of samples or field tests planned and the actual number collected or performed, as the objective of laboratory completeness is to provide analytical results for 95 percent of samples received intact with sufficient sample volume. Office completeness is the amount of data received compared to the amount of data correctly reviewed. If the completeness objective is not met, additional fieldwork or analysis may be required, as determined by the Project Manager.

3.1.3.4 *Comparability*

Comparability expresses the confidence with which one data set can be compared with another. Comparability can be related to precision and accuracy, as these quantities are measures of data reliability. In order to assess comparability, field sampling procedures, laboratory sample preparation procedures, analytical procedures, and reporting units must be known. Strict adherence to the specified QA/QC procedures will produce more comparable data.

Laboratory comparability will be ensured through the use of a California-certified laboratory for all samples collected as part of the project. In addition, the laboratory will be required to:

- Demonstrate traceability of standards to National Institute of Standards and Technology or USEPA sources;
- Use standard and approved methodologies;
- Use standardized units of measure;
- Use standardized QC acceptance criteria; and

- Participate in inter-laboratory studies to demonstrate laboratory performance.

If this assessment determines that comparability DQOs are not achieved, corrective action, as described in Section 13.0, will be undertaken.

3.1.3.5 *Representativeness*

Representativeness is the degree to which a set of data accurately represents the characteristics of a population, a process condition, or an environmental condition. Data are usually considered representative if the sample distribution is within statistically defined bounds of the population mean and variance. If this assessment determines that representativeness DQOs are not achieved, corrective action, as described in Section 13.0, will be undertaken.

Overall quality of sample results is dependent on proper sample management. Management of samples begins at the time of collection and continues through the analysis process. This section describes sample handling in both the field and the laboratory. The sample collection procedures to be used during the field work are described in the SAP. The description of sampling procedures includes:

- Guidelines used to select sampling sites;
- A description of specific sampling procedures and sample collection techniques;
- A description of sample preservation, transport, and storage methods;
- Sample holding time and chain-of-custody considerations; and
- All sample documentation requirements.

The procedures described below will be used whenever samples are collected.

4.1

SAMPLE HANDLING

Sample handling and storage procedures prior to and after laboratory submittal must meet method-prescribed requirements to ensure sample integrity is not compromised. A summary of sample containers, required preservation, and holding times for each of the analyses that will be used for this project is listed in Table E-6. Field and laboratory sample handling procedures that will be followed are described below.

4.1.1

Field Sample Handling Procedures

Soil samples that are submitted for analyses will be handled using the following procedures. Field-composited samples will be placed in clean, glass sample containers and sealed with a Teflon®-lined lid supplied by the laboratory. Samples submitted for discrete analyses or laboratory-composited samples will be submitted in clean, glass sample containers or sample collection sleeves. The ends of each sleeve will be covered with Teflon sheeting and sealed with a plastic end cap. Soil samples analyzed for VOCs will be subsampled using an EasyDraw Syringe. The subsamples will be placed in laboratory prepared 40 milliliter VOA vials containing 5 milliliters of Sodium Bisulfate or Methanol. Following placement of the subsample, the VOA vials will be handled in a similar

fashion to other collected samples, as described in the following subsections.

4.1.1.1 *Sample Labels*

A waterproof sample label will be completed and affixed to each sample container immediately upon collection. Sample label information will be completed using permanent, waterproof, dark-colored ink and will include the following information:

- Sample identification;
- Time and date of collection;
- Project number;
- Parameters to be analyzed; and
- Sampler's initials.

4.1.1.2 *Sample Identification*

A standardized numbering system will be used to identify all samples taken from soil sampling activities. The numbering system provides a tracking procedure to ensure accurate data retrieval of all samples taken. The Project Manager, who will be responsible for enforcing the use of the standardized numbering system during all sampling activities, will maintain a listing of the sample identification numbers. The sample identification numbering system is described within the SAP.

4.1.1.3 *Field Logs*

All data collection activities performed at a site will be documented using filed logs and chain-of-custody records. Entries will be as detailed and as descriptive as possible so that a particular situation can be recalled without reliance solely on the sampler's memory. All field log entries will be dated and signed by the person making them. A copy of a typical field log is shown on Figure E-2.

The Project Manager will maintain a Site Log that will summarize daily field activities, outside visitors, communications, sample shipments, and equipment assignments. This log will become a part of permanent project files.

4.1.1.4 *Corrections to Documentation*

If an incorrect entry is made in any type of data document, the incorrect data will be lined out with a single line, the correct information entered,

and the correction initialed and dated by the person making the correction. Like original entries, corrections will be made in indelible black ink.

4.1.1.5 *Sample Packaging and Storage*

Soil samples for inorganic analysis will be placed in individual, resealable plastic bags and stored in an ice chest. Soil samples for organic analysis will be placed in individual, resealable plastic bags and stored in a chilled ice chest. A sufficient amount of ice will be used to ensure samples are maintained at a temperature of 2 to 6 degrees Celsius ($^{\circ}\text{C}$). Ice used to chill coolers and samples will be placed in a plastic bag to reduce the potential for direct sample contact with melted water.

4.1.2 *Laboratory Sample Handling Procedures*

Samples requiring refrigeration will be maintained in a secure storage refrigerator that will be kept at a temperature ranging from 2 to 6°C . Sample extracts requiring refrigeration will be maintained in a secure storage refrigerator that will be kept at a temperature ranging from -10 to -20°C . Samples that require analysis for VOCs will be stored separately in a secure refrigerator.

To ensure samples or extracts are not tampered with, the laboratory is required to maintain a full-time security system. The laboratory shall maintain a record of all after-hours employee visits. This record may be used to track potential sample integrity problems at the laboratory.

5.0

SAMPLE CUSTODY

Proper custody procedures are necessary to ensure tampering has not compromised sample integrity and to ensure each of the required analyses are performed. The sample custody procedures to be used for this project are described below and in the FSP. The procedures include three key components of custody: sample collection, laboratory custody, and final evidence files.

5.1

CHAIN-OF-CUSTODY FORM

Proper chain-of-custody (COC) procedures will be followed to ensure that proper custody has been maintained and that the sample has not been tampered with in any way. A copy of a typical COC form is shown in Figure E-3. Appropriately completed COC forms will clearly reflect the movement of the sample through the sample handling and transport, and that proper custody has been maintained. A sample is judged to be in proper custody when at least one of the following criteria has been met:

- The sample is in one's actual physical possession;
- The sample is in one's clear field of view after being in one's physical possession; or
- The sample is in one's physical possession and is then locked up in a secure container so that no one can tamper with it.

These COC forms will maintain a record of sample collection, transfer between sample custodians, shipment, and receipt by the laboratory. A COC form will be filled out for all samples collected for laboratory analysis. This subsection describes the sample custody policies and procedures that will be followed during the sample handling process.

5.1.1

Transfer of Custody and Shipment

Each time the samples are transferred, the signatures of the person relinquishing and receiving the samples, as well as the date and time of transfer, will be documented. Prior to the shipment of samples, the COC form will be signed and dated by a member of the field team who has verified that those samples indicated on the COC form are indeed being shipped. After packaging has been completed and the samples are locked within the cooler, signed and dated custody seals will be placed over the lid edge.

Samples will be shipped by commercial delivery service for overnight delivery or hand delivered to the laboratory by field personnel. Upon receipt of the samples at the laboratory, the sample custodian will complete the transfer by dating and signing the COC form. An acceptable alternative is to enter the air bill number and shipping data into the appropriate signature/date block. A copy of the air bill is to be kept with the field copy of the COC form to reflect specific shipping information.

5.1.2 *Laboratory Receipt Procedures*

The following describes laboratory chain-of-custody and sample receipt procedures. The sequence of steps that will be undertaken after receipt of the sample by the laboratory is as follows:

- Upon receipt, the sample custodian will measure the temperature of the sample cooler and record the temperature on the sample login form.
- Sample containers will be inspected for the presence of leakage or breakage. Damaged or leaking samples will be noted on the COC form. The sample custodian will sign the COC form with the date and time of receipt, thus assuming custody of the samples.
- The information on the COC form will be compared with the information on the sample labels to verify exact sample identity. Any inconsistencies will be immediately resolved with the Principal-In-Charge before sample analysis proceeds.
- In the event of non-compliant cooler temperatures, damaged samples, or cooler contents that do not agree with COC forms, the sample custodian will immediately notify the Laboratory QA Officer. The Laboratory QA Officer is required to notify the Principal-In-Charge of any problems encountered during sample login within 24 hours of sample receipt.
- Samples will be moved to a secure, sample storage refrigerator for storage prior to analysis. The storage location will be recorded on the COC form and/or in the appropriate section of the laboratory login form to ensure continuity of sample tracking.
- The Laboratory QA Officer will retain the original carbon copies of the COC form prior to submitting the final data report. Upon submission of the final data report, one carbon copy of the original COC form will be included in this report. The remaining carbon copy of the original COC will be sent to the laboratory's locked master file cabinets or archives.

- The sample custodian will alert the appropriate section managers and analysts of any analyses requiring immediate attention due to short holding times.

Analytical laboratory personnel will check out samples for analysis from the sample custodian, and the formal transfer action, including date and signatures, will be recorded on the internal COC. The analyst will then be the custodian of the sample during analysis.

6.0 CALIBRATION PROCEDURES

The analytical results are the basis for assessing excavated soil and waste characterization. Calibration is an integral part of ensuring results are quantitated correctly. Instruments that are not calibrated to manufacturers' or method specifications are likely to produce unreliable results. Proper procedures must be followed and sufficient documentation maintained to ensure calibrations are performed correctly and sample quantitations accurately reflect sample concentrations. This section summarizes calibration procedures for field and laboratory instrumentation.

6.1 FIELD INSTRUMENTATION

A Photo-Ionization detector (PID) may be used in the field during the project. It will be calibrated according to manufacturers' specifications before each field use, or as otherwise required. Where necessary, the PID will be calibrated after each field use. Standard calibration requirements are described below.

6.1.1 Photo-Ionization Detector

Calibration of the meter will be checked at the start of each day using a standard calibration gas. If calibration of the PID is required, the instrument will be shipped back to the manufacturer for calibrations as suggested by the manufacturer. Results of the daily calibration check will be recorded in the field notebook in indelible ink.

6.2 LABORATORY INSTRUMENTATION

Before any analytical instrument is used, the instrument response to known reference materials must be determined. The manner in which various instruments are calibrated is dependent on the particular type of instrument and its intended use. All sample measurements will be made within the calibrated range of the instrument and will follow method protocols for calibration. Method protocols include:

- *Methods for Chemical Analysis of Water and Wastes* (USEPA, 1983);
- *Test Methods for Evaluating Solid Waste Physical/Chemical Methods*, SW-846 Update I (07/92) and Update II (09/94) (USEPA, 1986a); and
- Any other appropriate methodologies.

Laboratory calibrations typically consist of two types: initial calibration and continuing calibration verifications. Initial calibration procedures establish the calibration range of the instrument and determine instrument response over that range. Typically, three to five analyte concentrations are used to establish instrument response over a concentration range. An initial calibration must be performed prior to analysis of samples. Continuing calibration usually includes measurement of the instrument response to one or more calibration standards and requires instrument response to compare with certain limits (e.g., ± 15 percent for organics and ± 10 percent for inorganics) of the initial measured instrument response. A continuing calibration must be performed between initial calibrations and prior to analysis of samples.

The laboratory will retain copies of all calibration chromatograms, quantitation reports, and summary information in a central file location. As standards and solvents occasionally contain impurities, the laboratory is also required to document and maintain records of standard lot numbers, standard purity, standards preparation, solvent, and reagent purity in order to demonstrate standards and solvents are of acceptable quality.

7.0 *ANALYTICAL PROCEDURES*

The analytical results are the basis for assessing excavated soil and waste characterization. The procedures used to measure chemical concentrations in samples must follow recognized methods and procedures to ensure results are defensible and as accurate and reflective of sample concentrations as possible. The following section summarizes the analytical procedures for field activities and laboratory work.

7.1 *FIELD PARAMETERS*

As part of the analytical protocol for soil sampling, organic vapor concentrations will be measured using a PID. Field measurements will be recorded either in a bound field logbook or on the soil boring log, in permanent, dark-colored ink.

7.2 *LABORATORY METHODS*

Samples collected for this investigation will be analyzed using the following analytical methods listed in Table E-5.

The laboratory methods listed in this document are contained within documents listed in Section 6.2. Target compound lists and Practical Quantitation Limits (PQLs) for each of the analytical methods are listed in Tables E-1 through E-4. In the event the laboratory is required to adjust any of the PQLs, the regulatory agencies and the Sunkist will be notified for approval. Project-specific accuracy and precision limits are also included in Tables E-1 through E-5. The laboratory will document all non-conformances and out-of-control data in the case narrative portion of the data report.

Samples submitted for analysis will be prepared and analyzed by these analytical methods using standard USEPA methodology or other regulatory agency-approved methodology. Also included in this subsection are requirements for instrumentation and compressed gases used for laboratory instruments. The method-specific Standard Operating Procedures (SOPs) contain a more detailed description of each method.

7.2.1 *Laboratory Instrumentation*

It is essential that the laboratory perform detection limit studies on instrumentation in order to document accuracy of quantitation limits. It is also important for the laboratory to maintain current SOPs to ensure that methods and procedures are performed accurately and consistently.

The laboratory will follow the Method Detection Limit (MDL) procedures listed in 40 Code of Federal Regulations (CFR) 136, 1984, when performing MDL studies. Additionally, the laboratory will maintain current records of MDL studies for each instrument and will have established, reasonable accuracy and precision limits for each of the analytical methods utilized for this project.

Each department within the laboratory will maintain current SOPs for each method that will be readily accessible to analysts. The laboratory will also maintain current SOPs for any procedure associated with sample preparation and/or analysis including, but not limited to, testing solvent purity, logging in samples, washing glassware, and maintaining refrigerator temperature.

7.2.2 *Compressed Gases*

The majority of laboratory instruments utilize some type of compressed gas to move the sample through the column or to detect sample concentrations. It is extremely important that the compressed gases purchased by the laboratory be of the highest quality and contains no impurities. The laboratory will utilize compressed gases of the highest purity available, or as specified by the individual method. The laboratory will maintain and keep current records of compressed gas production lot numbers, so that contaminated compressed gases may be traced to a specific instrument or instruments, as well as the time period the contaminated gases were in service.

8.0 DATA REDUCTION, VALIDATION, AND REPORTING

The following sections summarize reduction, validation, and reporting procedures for field, technical, and laboratory data.

8.1 FIELD AND TECHNICAL DATA

The field and technical (non-laboratory) data that will be collected can generally be characterized as either objective or subjective data. Objective data include all direct measurements, such as field screening/analytical parameters. Subjective data include activity descriptions and observations.

8.1.1 *Field and Technical Data Reduction*

As described in Section 4.0, all field data will be recorded by field personnel on daily filed logs and/or on standard forms. The Project Manager may choose to appoint a team member to photocopy all field logs generated in a given field day. Copies will be given to the Principal-In-Charge who will maintain a field log file. At the direction of the Project Manager, copies of all field logs, and standard forms will be returned to the field office for entry into project files.

After checking the validity of data in field notes and on standard forms, the Principal-In-Charge will be responsible for entering pertinent data into data files. Where appropriate, the data files will be set up for direct input into the project database. Subjective data will be filed as hard copies for later review by the Principal-In-Charge and for incorporation into technical reports, as appropriate.

8.1.2 *Field and Technical Data Validation*

Validation of objective field and technical data will be performed at two different levels. On the first level, data will be validated at the time of collection by following standard procedures and QC checks. At the second level, data will be validated by the Principal-In-Charge, who will review the data to ensure that the correct codes and units have been included.

After data reduction into tabular format or the project database, the Project/Site Manager will review data sets for anomalous values. Any inconsistencies or anomalies discovered will be resolved immediately, if

possible, by seeking clarification from field personnel responsible for collecting the data.

Subjective field and technical data will be validated by the Principal-In-Charge, who will review field reports for reasonableness and completeness. In addition, random checks of sampling and field conditions will be made by the Principal-In-Charge, who will check recorded data at that time to confirm the recorded observations. Whenever possible, peer review will also be incorporated into the data validation process, particularly for subjective data, to maximize the consistency among field personnel.

8.2 *LABORATORY DATA*

All analytical data will be recorded in three ways: manually; an external computer program; and a data system that collects the raw data. All data collected on an instrument's data system are transferred electronically into the laboratory's data acquisition program. Data acquisition transfers data into the laboratory information management system for routine final reporting and is also used for generating analytical data reports. Copies of strip-chart outputs (e.g., chromatograms) will be maintained on file at the laboratory.

8.2.1 *Laboratory Data Reduction*

In addition to the data review performed by the analysts and the appropriate laboratory section manager, an external organization to the one that generated the data will validate the analytical data. Analytical data will be reviewed by the Principal-In-Charge and assessed by a qualified chemist using a step-by-step approach. The data generated by the laboratory will be validated against DQOs using USEPA data validation guidelines for specified analytes.

Qualified data will be annotated in accordance with USEPA *Contract Laboratory Program National Functional Guidelines for Organic and Inorganic Data Review* (USEPA, 1993, 1994), using the following codes:

- U: The analyte was analyzed for, but was not detected above the associated value.
- J: The associated numerical value is an estimated quantity.
- R: The data are unusable. The presence or absence of the analyte cannot be verified from the existing data. Re-sampling and re-analysis is necessary for verification.

- UJ: The analyte was analyzed for, but was not detected above the reported value. The associated value is an estimate.

In addition, the following data qualifiers may be used for organic data:

- N: There is presumptive evidence to make a tentative identification.
- NJ: There is presumptive evidence to make a tentative identification and the associated numerical value is an estimated quantity.

8.2.2 *Laboratory Data Validation*

In addition to the data review performed by the analysts and the appropriate laboratory section manager, an external organization to the one that generated the data will validate the analytical data. All analytical data will be reviewed and assessed by the Project Manager using a step-by-step approach. Approximately 10 percent of the data generated by the laboratory (original samples only) will be subjected to validation against DQOs using USEPA validation procedures for specified analytes. Organic data validation will be based on the USEPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review*, (USEPA, 1993) and inorganic data validation will be based on USEPA *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, (USEPA, 1994).

8.2.3 *Laboratory Data Reporting*

Laboratory analytical results will be reported as soon as results are available and will follow USEPA requirements in order to provide defensible evidence files. The standard laboratory data reports for organic compound analysis will consist of a transmittal letter and the following:

- A cover page describing data qualifiers; sample collection, extraction, and analysis dates; and a description of any technical problems encountered with the analysis;
- Sample data including detection limits; and
- A summary of QC data, including laboratory blanks, matrix spike/matrix spike duplicates, and surrogate recovery results.

The standard laboratory data reports for inorganic constituent analysis will consist of a transmittal letter and the following:

- A cover page describing data qualifiers, sample receipt, digestion and analysis dates, and a description of any technical problems encountered with the analysis;
- Sample data including detection limits; and

- A summary of QC data, including laboratory blanks and matrix spike/matrix spike duplicate results.

9.0 *INTERNAL QUALITY CONTROL*

It is essential to demonstrate that data used for decision-making purposes be of high quality. Data of questionable quality may not be suitable for decision-making purposes and may not meet DQOs. This section describes the QC checks that will be used in the evaluation of data QAOs. The purpose of QC activities is to provide methods for checking, verifying, or quantifying the quality of an item or piece of data against established standards. The term "field QC" applies to QC samples that are collected and/or submitted for analysis to the laboratory. Laboratory QC checks are QC samples that are prepared and analyzed with project samples to monitor laboratory performance and to evaluate potential interferences from sample matrices.

9.1 *LABORATORY QUALITY CONTROL SAMPLES*

Laboratory QC samples may include the use of a method blank, a matrix and/or blank spike, laboratory duplicate and surrogate spike samples, and internal standards. The laboratory has a documented QA/QC program that provides rules and guidelines for ensuring QC.

9.1.1 *Method Blank*

Method blanks are used to monitor and ensure that the analytical system is free of contamination due either to carry over from previous samples or from laboratory procedures. A method blank is prepared using a laboratory reagent soil. The reagent soil is extracted and analyzed as a sample by the laboratory. A method blank should be performed at least once per day for each matrix and method utilized by the laboratory for that day. A maximum of 20 samples should be associated with a method blank. Target analytes should not be present at levels above the PQL; compounds identified by USEPA as common laboratory contaminants (e.g., acetone, 2-butanone, methylene chloride, and phthalates) should not be present at concentrations greater than three times the PQL. Project samples that are associated with blanks that do not meet these criteria and exhibit detections of the blank contaminant will be reanalyzed and, if necessary, re-extracted and reanalyzed. Samples for which no analysis meeting these criteria is attained will be resampled and reanalyzed.

9.2.2 *Matrix Spike*

Matrix spike samples are utilized to monitor and assess the effects of the sample matrix on the sample analysis and as a check on the accuracy of the analysis. Samples are prepared by adding known quantities of target compounds to a sample. The results of the analysis are compared with the known concentrations added to the sample, and a recovery is calculated. The calculated recovery gives an evaluation of the effect of the sample matrix and accuracy of the analysis procedure. Recoveries will be compared to the limits listed in Tables E-1 through E-4. No corrective action or reanalysis of samples is required for matrix spike recoveries outside of acceptable limits. Data associated with out-of-limit recoveries may require qualification. Triple volume of sample material will be collected for selected soil and concrete samples so the laboratory can perform matrix spike and matrix spike duplicates (described in Section 9.2.4).

9.2.3 *Laboratory Control Sample*

Laboratory control samples (LCS) are used to monitor the accuracy of the analytical procedure without the bias of a matrix. The LCS is prepared similarly to a matrix spike sample using the same spiking constituents, except for the LCS, a control (clean reagent) matrix is utilized. The LCS recovery is calculated in the same way as the matrix spike recovery. LCS recoveries will be compared to the limits listed in Tables E-1 through E-4. LCSs with recoveries outside of acceptable limits should be reanalyzed along with each of the associated samples in the batch. If necessary, such samples should be re-extracted and reanalyzed. LCS samples will be prepared and performed by the laboratory at a frequency of 1 per batch of 20 samples. An LCS will be performed daily for each instrument that is used to perform volatile analyses.

9.2.4 *Laboratory Duplicate*

Laboratory duplicate samples are used to monitor and assess laboratory precision, as well as potential matrix heterogeneity. Laboratory duplicate samples are performed by taking an additional aliquot of sample and analyzing it. Matrix spike duplicate analyses will be performed for volatile analyses. The two results are compared and an RPD is calculated. The RPD is compared to the limits listed in Tables E-1 through E-4. A laboratory duplicate will be performed at a frequency of once per batch of 20 samples.

9.2.5

Surrogate Spike

Surrogate spikes are utilized to monitor potential interferences from the sample matrix. Surrogate spikes are required for organic analyses only. Known concentrations of surrogate spikes are added to each sample, including QC samples, prior to performing an organic analysis. The surrogate spike recovery is calculated similarly to the matrix spike and LCS recovery. For this investigation, the methods that utilize surrogates and either the method-specified or laboratory-generated limits are listed within Tables E-1 through E-4.

Surrogate limits are based on percent recovery. Samples with surrogate recoveries outside of acceptable limits should be reanalyzed and, when necessary, re-extracted and reanalyzed. If surrogate recoveries are still outside of acceptable limits upon re-extraction and reanalysis, the out-of-limit occurrence will be considered an indication of matrix interference. If the surrogate recoveries are within acceptable limits, then the re-extraction and reanalysis will be reported.

The laboratory has a QA/QC program that provides rules and guidelines for ensuring QC.

10.0 ***PERFORMANCE AND SYSTEMS AUDITS***

Audits may consist of two types: system and performance. The purpose of a system audit is to determine whether appropriate project systems are in place. Performance audits are used to indicate whether those systems are functioning properly. Audits will be conducted by the project QA/QC Manager or technician, as tasked by the Principal-In-Charge, to verify the existence of an effective QC system. Additionally, the audit will evaluate the level of compliance of that system in terms of adherence to QC measures, standards, records, and project documentation and control.

10.1 ***PROJECT SYSTEM AUDITS***

The QA/QC Manager will periodically, on an unannounced basis, call for a system audit. The Project Manager will respond by submitting the QAPP. The audit will be performed by the QA/QC Manager or an auditor named by the Project Manager and the QA/QC Manager. The auditor will then determine whether the QAPP is in place and whether the reviews called for by the QAPP have been performed. Results of project audits will be reported to the Principal-In-Charge.

10.2 ***TECHNICAL PERFORMANCE AUDITS***

The project QA/QC Manager will conduct technical performance audits on an ongoing basis during the project, as field data are generated, reduced, and analyzed. All numerical analyses, including manual calculations, mapping, and computer support activities, will be documented and subject to performance audits in the form of QC procedural reviews, mathematical reanalysis, and peer review. Technical peer review is the responsibility of the Project Manager. All records of numerical analyses will be legible, reproduction quality, and complete enough to permit logical reconstruction by a qualified objective reviewer.

10.3 ***FIELD PERFORMANCE AUDITS***

A field systems audit will be conducted at the initiation of fieldwork. The Project Manager or a qualified designee will review the field equipment selection to ensure that the equipment is capable of accurately performing the desired functions. Equipment selection review will be based on the capabilities and limitations of the instrument/sampling device. Use will

be reviewed based on observations and comparison of actual versus expected results.

Upon audit completion, an audit report containing observations, findings, and recommended corrective actions will be submitted to the Project Manager.

10.4 *LABORATORY AUDITS*

The laboratory QA Manager is responsible for monitoring the internal QA program. The contractor will verify that standardized QA programs are in effect to provide objective oversight of laboratory procedures. Additionally, copies of internal QA reports will be requested to ensure that standards of quality performance are in effect.

11.0 ***PREVENTIVE MAINTENANCE***

Proper preventive maintenance of field and laboratory equipment is an essential element in a successful field investigation. Implementation of standard preventive maintenance routines serves to eliminate surprise equipment failures and subsequent stand-by time.

11.1 ***FIELD EQUIPMENT***

Field equipment will be properly calibrated, charged, and in good working condition before the beginning of each workday. Manufacturers' specifications define the required equipment checks for each type of field equipment used. Non-operational field equipment will be removed from service and replaced immediately. Significant repairs to field equipment will not be performed in the field.

All field instruments will be properly protected against inclement weather during the remedial action. Each instrument is specially designed to maintain its operating integrity during variable temperature ranges that are representative of ranges that will be encountered during working conditions. At the end of each workday, all field equipment will be taken out of the field and placed in a cool dry room for overnight storage.

All subcontractor equipment (e.g., excavators) will arrive at the Site in proper working condition each day. All lubricating and hydraulic motor oils will be checked by the subcontractor before the start of each workday to ensure all fluid reservoirs are full and there are no leaks. Before the start of each workday, the Project Manager will also inspect all equipment for fluid leaks. If a leak is detected, the equipment will be removed from service for repair or replacement.

11.2 ***LABORATORY EQUIPMENT***

The ability to generate valid analytical data requires that all analytical instrumentation be properly maintained. The selected laboratory should maintain full service contracts on all major instruments. These service contracts will not only provide routine preventive maintenance, but will provide emergency repair service to ensure responsive support to the project requirements.

11.2.1 *Instrument Maintenance Logbooks*

Each analytical instrument is assigned a specific instrument logbook, where all maintenance activities are recorded. The information entered in the instrument logbook will include the following:

- Date of service;
- Person performing service;
- Type of service performed and reason for service;
- Replacement parts installed (if appropriate); and
- Other information, as required.

Data assessment or evaluation is performed to ensure that data are accurate and of acceptable quality prior to using data for decision-making purposes. During this assessment, data are reviewed and validated for compliance with pre-established project goals and limits. Data that do not meet these goals or limits may require qualification to identify results that should be used with caution or should not be used for decision-making purposes.

Data assessment responsibilities are defined as follows:

- Analytical data will be reviewed and/or validated by a qualified designee to ensure QC goals have been achieved and data quality is acceptable;
- Field data will be assessed by the Task Manager or qualified designee; and
- Data adequacy will be assessed by the Project Manager or qualified designee to ensure adequate data are available to meet project DQOs.

13.0 *CORRECTIVE ACTIONS*

The ultimate responsibility for maintaining quality throughout the project rests with the Project Manager. Responsibility for the routine operation of the quality assurance program, however, falls upon all of the BEC project staff and the laboratory personnel.

Items, events, or procedures that will negatively affect the quality of the data or project results must be reported in a timely manner to the appropriate supervisory staff. When necessary, corrective measures must be taken as soon as possible, or work may need to be stopped until corrections are implemented.

13.1 *NONCONFORMANCE*

A nonconformance is defined as a deficiency or improper procedure that renders the quality of an item unacceptable or indeterminate. A nonconforming item may be reported to the Project Manager by any member of the project staff. Audits may also identify nonconformances. The originator of a nonconformance will describe the findings on a Nonconformance Report Form.

Work that has been reported as nonconforming may be temporarily stopped while the nonconformance is being investigated. The quality of an item may be deemed acceptable following the investigation. The Project Manager or Task Leader has the authority to stop the work while the nonconformance is being investigated.

13.2 *CORRECTIVE ACTION*

Any and all nonconformances with the established QC procedures will be expeditiously identified and controlled. No additional work that is dependent on the nonconforming activity will be performed until the identified nonconformance is corrected.

13.2.1 *Field Corrective Action*

Corrective actions will be defined by the field personnel, Task Manager, or Project Manager, and a description of the action will be documented on the Nonconformance Report Form. Corrective actions must be approved verbally by the Project Manager prior to implementation.

13.2.2

Laboratory Corrective Action

The laboratory has an established corrective action policy that can be initiated at several operational levels; however, they always involve QA personnel. During or following the analysis of project samples, the laboratory QA Officer should provide the Project Manager with a corrective action memo documenting any nonconformance and resolution that impacted any samples. This memo will be included in the project files.

Individual Task Leaders will report to the Project Manager on a regular basis regarding progress of the fieldwork and QC issues associated with the field activities. All reports will be verbal unless a need to document corrective action in writing (as detailed in Section 13.0) is identified.

The laboratory maintains detailed procedures for laboratory record keeping and reporting to support the validity of all analytical work. The laboratory QA Officer will provide the Project Manager with reports of state and/or federal audits or internal audits, corrective actions, and other QA activities.

Verbal reports will be provided following the receipt of individual data packages. The final report will be based on the data reports and other information reported verbally by the contract laboratory. If any QA problems are encountered, the laboratory QA Officer will issue a written report to the Project Manager. All data and QA reports will be provided to the Project Manager to be included in the construction completion report.

In addition, meetings to discuss the progress of the project will be held as requested. At these meetings, concerns that arise during the course of the work that may require changes to the scope of work or deviations from the established protocols specified in the approved SOPs will be discussed and resolved. Proposed adjustments will be submitted to the appropriate regulatory agency for approval prior to implementation.

Figures

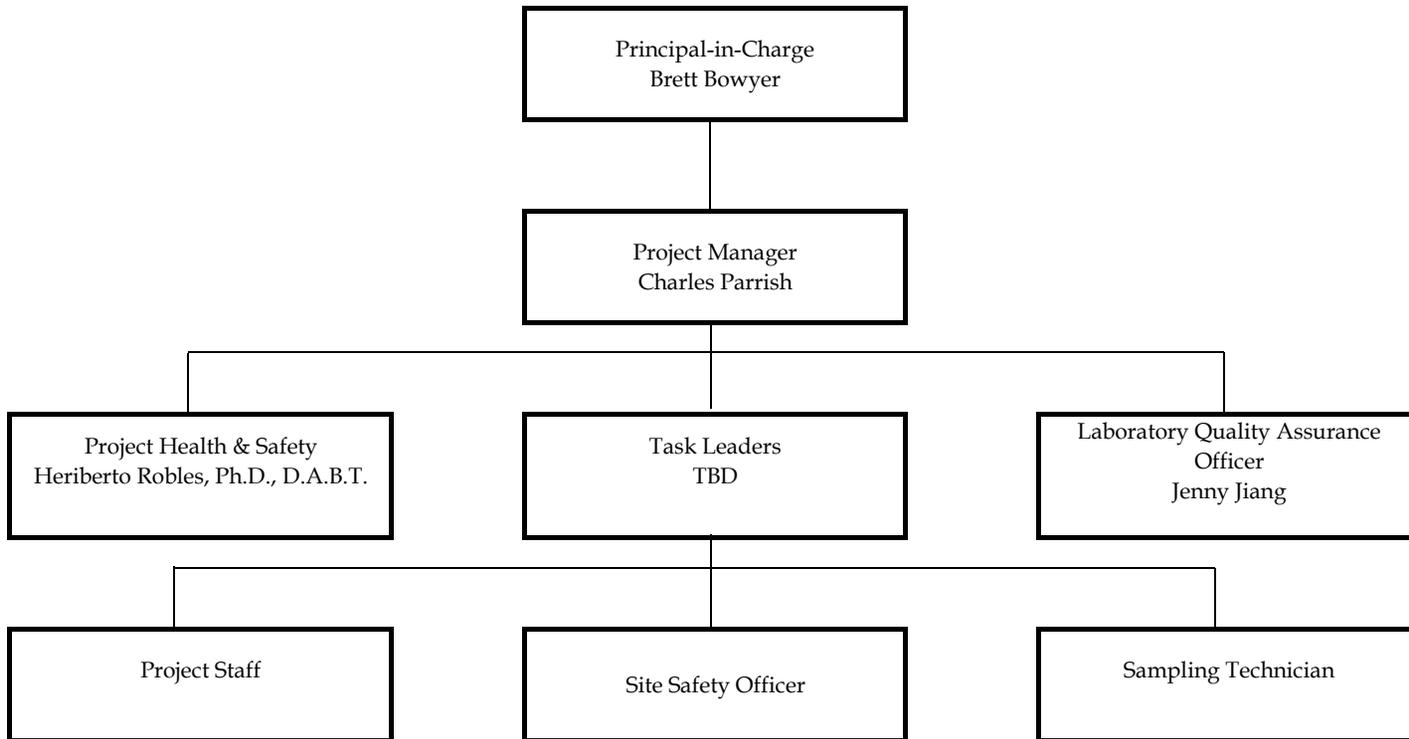


Figure E-1
Personnel Organization Chart
Sunkist Former Citrus Processing Plant
Ontario, California

CHAIN OF CUSTODY

Client Name				Sample Receipt Conditions		Analyses Requested												Turn Around Time Requested	
Address				<input type="checkbox"/> Chilled <input type="checkbox"/> Intact <input type="checkbox"/> Sample Seal														<input type="checkbox"/> Rush 8 12 24 48 Hours <input type="checkbox"/> Normal	
Report Attention		Phone # Fax: #																	Sampled By
Project No./ Name		Project Site																	
Client Sample ID	Lab Sample ID	Sample Collection		Matrix Type	Sample Preserve	No., type* & size of container	EPA8260B (VOCs & Oxygenates)	EPA8260B(BTEX & Oxygenates)	EPA8021B (BTEX & MTBE)	EPA8015M / 8015B (Gasoline)	EPA8015M / 8015B (Diesel)	EPA8081A (Organochlorine Pesticides)	EPA 8082 (PCBs)	EPA418.1 (TRPH)	EPA8015M (Carbon Chain)	EPA 7000s (Metals)	CAM 17 Metals	Remarks	
		Date	Time																
Relinquished By	Company	Date	Time	Received By	Company	Date	Time	Note: Samples are discarded 30 days after results are reported unless other arrangements are made.											
Relinquished By	Company	Date	Time	Received By	Company	Date	Time												

Tables

**Table E-1 Accuracy, Precision, and PQL Limits for Method 8260
Sunkist Former Citrus Processing Plant**

Target Analytes	Soil		
	PQL µg/kg	QC Limits (a)	
		% Recovery	RPD
Chloromethane	5	30-145	25
Vinyl Chloride	2	45-130	30
Bromomethane	5	65-145	25
Chloroethane	5	50-150	25
Trichlorofluoromethane	5	45-155	25
Acetone	10	15-150	40
2-Chloroethyl vinyl ether	5	20-175	25
1,1-Dichloroethylene			
Methylene Chloride	20	60-145	25
Carbon Disulfide	5	50-145	20
Vinyl Acetate	5	45-155	30
1,1-Dichloroethane	5	70-140	25
Ethylene Dibromide			
2-Butanone	10	20-175	40
trans-1,2-Dichloroethylene	2	65-135	25
cis-1,2-Dichloroethylene	2	60-135	25
Chloroform	2	70-130	20
1,1,1-Trichloroethane	2	65-140	30
Carbon Tetrachloride	5	70-145	25
1,2-Dichloroethane	2	65-135	25
Benzene	2	65-130	20
Trichloroethylene (TCE)			
1,2-Dichloropropane	2	65-125	20
Bromodichloromethane	2	70-145	20
4-Methyl-2-pentanone	5	40-160	40
2-Hexanone	10	30-165	40
cis-1,3-Dichloropropene	2	65-140	25
trans-1,3-Dichloropropene	2	65-140	25
1,1,2-Trichloroethane	2	65-140	30
Toluene	2	70-125	20
Dibromochloromethane	2	65-145	25
Tetrachloroethylene (PCE)	2	70-135	25
Chlorobenzene	2	80-130	25
Ethylbenzene	2	70-135	25
Total-Xylenes			
Styrene	2	70-145	25
Bromoform	5	60-145	30
1,1,2,2-Tetrachloroethane	2	50-155	30
1,3-Dichlorobenzene	2	70-125	25
1,4-Dichlorobenzene	2	75-130	25
1,2-Dichlorobenzene	2	75-130	25

Key:

µg/kg = Micrograms per kilogram

a = Limits should be viewed as goals and not as a means of accepting or rejecting data. QC Limits apply to both Matrix Spike and LCS recoveries.

LCS = Laboratory Control Sample

PQL= Practical Quantitation Limit

QC = Quality Control

RPD = Relative Percent Difference

**Table E-2 Accuracy, Precision, and PQL Limits for Method 8015
Sunkist Former Citrus Processing Plant**

Target Analytes	Soil		
	PQL µg/kg	QC Limits (a)	
		% Recovery	RPD
TPH	5		

Key:

µg/kg = Micrograms per kilogram

a = Limits should be viewed as goals and not as a means of accepting or rejecting data. QC Limits apply to both Matrix Spike and LCS recoveries.

LCS = Laboratory Control Sample

PQL= Practical Quantitation Limit

QC = Quality Control

RPD = Relative Percent Difference

**Table E-3 Accuracy, Precision, and PQL Limits for Method 8270
Sunkist Former Citrus Processing Plant**

Target Analytes	Soil		
	PQL mg/kg	QC Limits (a)	
		% Recovery	RPD
Acenaphthene	0.33	45-120	25
Acenaphthylene	0.33	45-120	20
Anthracene	0.33	55-120	25
Benzo(a)anthracene	0.33	50-120	25
Benzo(b)fluoranthene	0.33	60-125	30
Benzo(k)fluoranthene	0.33	50-125	30
Benzo(g,h,i)perylene	0.33	20-160	30
Benzo(a)pyrene	0.33	55-125	25
Benzyl alcohol	0.33	35-130	30
bis(2-Chloroethoxy)methane	0.33	45-120	25
bis-(2-Chloroethyl)ether	0.17	40-120	25
bis(2-Chloroisopropyl)ether	0.33	40-120	25
bis(2-Ethylhexyl)phthalate	0.33	55-150	25
4-Bromophenyl phenyl ether	0.33	50-125	20
Benzyl butyl phthalate	0.33	50-125	20
4-Chloroaniline	0.33	15-120	30
2-Chloronaphthalene	0.33	50-120	20
4-Chloro-3-methylphenol	0.33	50-125	25
2-Chlorophenol	0.33	40-120	20
4-Chlorophenyl phenyl ether	0.33	55-120	25
Chrysene	0.33	55-120	25
Dibenzo(a,h)anthracene	0.42	20-160	30
Dibenzofuran	0.33	55-120	25
Di-n-butylphthalate	0.33	55-125	25
Di-n-Octylphthalate	0.33	45-140	25
1,3-Dichlorobenzene	0.33	35-120	25
1,4-Dichlorobenzene	0.33	35-120	25
1,2-Dichlorobenzene	0.33	35-120	25
3,3'-Dichlorobenzidine	0.83	10-170	25
2,4-Dichlorophenol	0.33	45-120	25
Diethyl phthalate	0.33	55-120	25
2,4-Dimethylphenol	0.33	45-120	25
Dimethyl phthalate	0.33	50-120	25
4,6-Dinitro-2-methylphenol	0.42	10-125	25
2,4-Dinitrophenol	0.66	10-140	25
2,4-Dinitrotoluene	0.33	55-140	25
2,6-Dinitrotoluene	0.33	55-125	20
Di-n-octylphthalate	0.33	45-140	25
Fluoranthene	0.33	45-130	30
Fluorene	0.33	55-120	25
Hexachlorobenzene	0.33	40-120	25
Hexachlorobutadiene	0.33	40-120	25
Hexachlorocyclopentadiene	0.83	25-140	30
Hexachloroethane	0.33	35-120	30
Indeno(1,2,3-cd)pyrene	0.33	20-155	30
Isophorone	0.33	40-120	25
2-Methylnaphthalene	0.33	45-120	20
2-Methylphenol (o-cresol)	0.33	40-120	25
4-Methylphenol (p-cresol)	0.33	40-120	25
Naphthalene	0.33	40-120	25
2-Nitroaniline	0.33	55-130	25
3-Nitroaniline	0.33	35-140	25
4-Nitroaniline	0.83	40-160	30
Nitrobenzene	0.33	45-120	25
2-Nitrophenol	0.33	40-120	25
4-Nitrophenol	0.83	35-140	30
N-Nitroso-di-n-propylamine	0.33	55-120	25

**Table E-3 Accuracy, Precision, and PQL Limits for Method 8270
Sunkist Former Citrus Processing Plant**

Target Analytes	Soil		
	PQL mg/kg	QC Limits (a)	
		% Recovery	RPD
N-Nitrosodiphenylamine	0.25	45-120	25
Pentachlorophenol	0.83	30-125	25
Phenanthrene	0.33	55-120	25
Phenol	0.33	40-120	25
Pyrene	0.33	50-125	30
1,2,4-Trichlorobenzene	0.33	45-120	25
2,4,5-Trichlorophenol	0.33	55-120	20
2,4,6-Trichlorophenol	0.33	40-120	25

Key:

µg/kg = Micrograms per kilogram

a = Limits should be viewed as goals and not as a means of accepting or rejecting data.

QC Limits apply to both Matrix Spike and LCS recoveries.

LCS = Laboratory Control Sample

mg/L = Milligrams per liter

PQL = Practical Quantitation Limit

QC = Quality Control

RPD = Relative Percent Difference

**Table E-4 Accuracy, Precision, and PQL Limits for Methods 6010/6020/7470
Sunkist Former Citrus Processing Plant**

Target Analytes	Method of Analysis	Soil		
		PQL mg/kg	QC Limits (a)	
			% Recovery	RPD
Antimony	6010/Trace-ICP	10	75 -125	20
Arsenic	6010/Trace-ICP	2	75 - 125	20
Barium	6020/200.8	0.5	75 - 125	20
Beryllium	6010/Trace-ICP	0.5	75 - 125	20
Cadmium	6010/CLP	0.5	75 - 125	20
Chromium (total)	6010/CLP	1	75 - 125	20
Copper	6020/200.8	1	75 - 125	20
Lead (total)	6010/Trace-ICP	2	75 - 125	20
Mercury	7470/7471	2	75 - 125	20
Nickel	6020/200.8	0.5	75 -125	20
Selenium	6010/Trace-ICP	2	75 - 125	20
Silver	6020/200.8	0.5	75 - 125	20
Thallium	6020/200.8	0.5	75 -125	20
Zinc	6010/Trace-ICP	5	75 -125	20

Key:

a = Limits should be viewed as goals and not as a means of accepting or rejecting data. QC Limits apply to both Matrix Spike and LCS recoveries.

LCS = Laboratory Control Sample

mg/kg = Milligrams per kilogram

PQL= Practical Quantitation Limit

QC = Quality Control

RPD = Relative Percent Difference

**Table E-5 Accuracy, Precision, and PQL Limits for Method 8082
Sunkist Former Citrus Processing Plant**

Target Analytes	Soil		
	PQL µg/kg	QC Limits (a)	
		% Recovery	RPD
Aroclor 1016	25	50 - 115	30
Aroclor 1221	50		
Aroclor 1232	25		
Aroclor 1242	25		
Aroclor 1248	25		
Aroclor 1254	25		
Aroclor 1260	25	50 - 120	30

Key:

a = Limits should be viewed as goals and not as a means of accepting or rejecting data. QC

Limits apply to both Matrix Spike and LCS recoveries.

PQL= Practical Quantitation Limit

QC = Quality Control

RPD = Relative Percent Difference

µg/kg = Micrograms per kilogram

Table E-6 *Sample Containers, Preservation, and Holding Times*
Sunkist Former Citrus Processing Plant

Parameter	Matrix	Analytical Method	Container	Preservation	Maximum Holding Time Extraction/ Analysis
VOCs	Soil	USEPA 8260	En Core Sampler®	4°C	48 hours to analysis
TPH	Soil	USEPA 8015	En Core Sampler®	4°C	48 hours to analysis
SVOCs	Soil	USEPA 8270	Brass Sleeve	4°C	14 days/40 days from extraction to analysis
PCBs/Pesticides	Soil	USEPA 8082	Glass Jar- 100 g or Brass Sleeve	none	14 days/40 days from extraction to analysis
Metals	Soil	USEPA 6010/7000	Glass Jar- 100 g or Brass Sleeve	none	6 months to analysis, Hg 28 days to analysis

Key:

°C = degrees Celsius

CA LUFT = California Leaking Underground Storage Tank Field Manual

Hg = Mercury

M = Modified

ml = Milliliter

Org. Pb = Organic lead

PCBs = Polychlorinated biphenyls

SVOCs = Semivolatile organic compounds

USEPA = United States Environmental Protection Agency

VOCs = Volatile organic compounds